

AC147781	MUS MUSCU					
AL135842	Human DNA					
CQ466652	Sequence					
CQ466387	Sequence					
CQ46521	Sequence					
CQ467148	Sequence					
AR554285	Sequence					
CQ413259	Sequence					
AF210616	Zea mays					
AY702552	Zea mays					
CQ585066	Sequence					
AC014956	Drosophil					
AL929231	Zebrafish					
AC006431	Homo sapi					
AC147655	Pan trogl					
AC147655	Pan trogl					
CR788316	Danio rer					
AP002352	Homo sapi					
AC138169	Sus scrof					
AC147342	Pan trogl					
AC151848	Pan trogl					
AC073857	Homo sapi					
AC105263	Drosophil					
BX088582	Zebrafish					
AC149093	Pan trogl					
AC147661	Pan trogl					
ALIGNMENTS						
RESULT 1						
BD263890						
LOCUS	BD263890					
DEFINITION	Promoter of thioredoxin Tartrxh2 in wheat.					
ACCESSION	BD263890					
VERSION	BD263890_1					
KEYWORDS	GI:33073658					
SOURCE	JP 2002543844-A/2.					
ORGANISM	Triticum aestivum (bread wheat)					
	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;					
	Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;					
	Pooidae; Triticeae; Triticum.					
REFERENCE	1 (bases 1 to 1111)					
AUTHORS	Gautier,M.P., Ihora,T. and Joudrier,P.					
TITLE	Promoter of thioredoxin Tartrxh2 in wheat					
JOURNAL	Patent: JP 2002543844-A 24-DEC-2002;					
COMMENT	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE					
OS	Triticum aestivum (common wheat)					
PN	JP 2002543844-A/2					
PD	24-DEC-2002					
PP	JP 2000618471					
PR	17-MAY-1999 FR 99/06531					
PI	MARIE FRANCOISE GAUTIER,TANIA IHORA,PHILIPPE JOUDRIER PC					
C12N15/00,A01H5/00,C12N5/10//,(C12R1:91),C12N15/00, PC						
PC	(C12N5/00,C12R1:91)					
	CC Promoter of thioredoxin Tartrxh2 in wheat					
	FH Key					
	FT source					
	1..1111 /organism='Triticum aestivum (common wheat)' .					
	Location/Qualifiers					
	1..1111 /organism='Triticum aestivum'					
	/mol_type='genomic DNA'					
	/db_xref='taxon:4565'					
SUMMARIES						
Result	Query	Match	Length	DB	ID	Description
No.	Score	Match	Length	DB	ID	
1	100.0	1111	6	BD263890		BD263890 Promoter
2	100.0	1111	6	AX047682		AX047682 Sequence
3	100.0	2687	6	BD263889		BD263889 Promoter
4	100.0	2687	6	AX047681		AX047681 Sequence
5	54.54	4.9	596	TAB3765		AJ009762 Triticum
6	32.32	2.9	629	TAB404845		Au404845 Triticum
c	7.26	2.3	228676	BX901914		BX901914 Danio rer
c	8.24	2.2	146015	AC021923		AC021923 Homo sapi
c	9.24	2.2	152251	AC092642		AC092642 Homo sapi
10	24	2.2	155054	BX927299		BX927299 Danio rer
c	11.24	2.2	160804	BX001022		BX001022 Zebrafish
c	12.24	2.2	185217	BX927400		BX927400 Danio rer
c	13.24	2.2	247387	BX645052		BX645052 Zebrafish
c	14.24	2.2	263169	BX927111		BX927111 Danio rer
c	15.24	2.2	291544	AC128496		AC128496 Rattus no
c	16.23	2.1	116090	AL772222		AL772222 Mouse DNA
c	17.23	2.1	163315	AC142056		AC142056 Rat no
c	18.23	2.1	166125	AC019327		AC019327 Homo sapi
c	19.23	2.1	177332	AC027290		AC027290 Homo sapi
Query	Match					Score 100.0%; Score 1111; Best Local Similarity 100.0%; Pred. No. 0; Matches 1111; Conservative 0; Mismatches 0; Indels 0; Gaps 0; ORIGIN 1 GAACTCAGAGGCCGTTAGAATTGTGGAGGACTCGAAAAAGAAGGGAGCCAGGC 60

Db	601	CAGCCAGTTATTATATAACAGGCTATAAGCTGACCTGGCATAGGCCATAGGCCCA	660
Qy	661	GCCGCCTCTCTTCTATTAGCTTGTCTTATGGCTACATCTGTGAGCAGTCATTGATTC	720
Db	661	GCCGCCTCTTCTATTAGCTTGTCTTATGGCTACATCTGTGAGCAGTCATTGATTC	720
Qy	721	AAACACAAATCCGGCGTTAGCAAGCTGGAATGAACTTCTGCTCATCTGCG	780
Db	721	AAACACAAATCCGGCGTTAGCAAGCTGGAATGAACTTCTGCTCATCTGCG	780
Qy	781	TGGGCCTACGGPATTGGCTAACCGTGTGAAATCGACCCCTACCAAGGCCAGGCTC	840
Db	781	TGGGCCTACGGPATTGGCTAACCGTGTGAAATCGACCCCTACCAAGGCCAGGCTC	840
Qy	841	CAGGACCGTTACCACTCAGCCTAAAGAAAAAAACTGTTCAATCACACCC	900
Db	841	CAGGACCGTTACCACTCAGCCTAAAGAAAAAAACTGTTCAATCACACCC	900
Qy	901	CATCTGAACCGTTAACACCCCCAACGTTATTCCGCCCCACCGAACGGCATATCCCTCA	960
Db	901	CATCTGAACCGTTAACACCCCCAACGTTATTCCGCCCCACCGAACGGCATATCCCTCA	960
Qy	961	TAGGGAGGCCATAAATTCTGATTCTGGCTCTGGCCGACATTATCTTGGGGNGGC	1020
Db	961	TAGGGAGGCCATAAATTCTGATTCTGGCTCTGGCCGACATTATCTTGGGGNGGC	1020
Qy	1021	GGGGGGATTGGAGACAGCCACAGGCAACAAACAAGTGCGTGGAAATCACCA	1080
Db	1021	GGGGGGATTGGAGACAGCCACAGGCAACAAACAAGTGCGTGGAAATCACCA	1080
Qy	1081	AGGGGTGTTGCCGAGAACAGAGAGAGAG	1111
Db	1081	AGGGGTGTTGCCGAGAACAGAGAGAGAG	1111
RESULT 3			
LOCUS	BD263889	BD263889 2687 bp DNA linear	PAT 17-JUL-2003
DEFINITION		Promoter of thioreddoxine Tartrh2 in wheat.	
ACCESSION	BD263889		
VERSION	BD263889.1	GI:33073657	
KEYWORDS	JP 2002543844-A1.		
SOURCE	OS Triticum aestivum (bread wheat)		
ORGANISM	Eukaryota; Viridiplantae; Striophytida; Embryophyta; Tracheophyta; Spermatophytina; Magnoliophytida; Liliopsida; Poales; Poaceae; Pooidae; Triticeae; Triticum.		
REFERENCE	1 (bases 1 to 2687)		
AUTHORS	Gautier, M.F., Ihora, T. and Joudrier, P.		
TITLE	Promoter of thioreddoxine Tartrh2 in wheat.		
JOURNAL	Patent: JP 2002543844-A 1 24-DEC-2002;		
COMMENT	INSTITUT NATIONAL DE LA RECHERCHE AGRONOMIQUE		
	PN JP 2002543844-A/1		
	PD 24-DEC-2002		
	PF 17-MAY-2000 JP 200006184731		
	PR 17-MAY-1999 FR 99/06231		
	PI MARIE FRANCOISE GAUTIER, TANIA IHLORI, PHILIPPE JOURDIER PC		
	C12N5/09, A01H5/00, C12N5/10/(C12N5/10, C12R1:91), C12N15/00,		
	PC (C12N5/00, C12R1:91)		
CC	Promoter of thioreddoxine Tartrh2 in wheat		
PH	Key Location Qualifiers		
FT	exon	(1112) . (1231)	
FT	intron	(1232) . (2201)	
FT	exon	(2204) . (2326)	
FT	intron	(2327) . (2420)	
FT	exon	(2421) . (2558)	
FT	CDS	(1112) . (1231)	
FT	CDS	(2204) . (2326)	
FT	CDS	(2421) . (2558)	
FEATURES	Location/Qualifiers	1 . 2687	
source			

/organism="Triticum aestivum"
 /mol_type="genomic DNA"
 /db_xref="taxon:4565"

ORIGIN

	Query	Match	Score
		Best Local Similarity	100.0%
		Mismatches	0
		Indels	0
		Gaps	0
	Qy	1	1
	Db	1	1
	Qy	61	61
	Db	61	61
	Qy	121	120
	Db	121	120
	Qy	181	240
	Db	181	240
	Qy	241	300
	Db	241	300
	Qy	301	360
	Db	301	360
	Qy	361	420
	Db	361	420
	Qy	421	480
	Db	421	480
	Qy	481	540
	Db	481	540
	Qy	541	600
	Db	541	600
	Qy	601	660
	Db	601	660
	Qy	661	720
	Db	661	720
	Qy	721	780
	Db	721	780
	Qy	781	840
	Db	781	840
	Qy	841	900
	Db	841	900
	Qy	901	960
	Db	901	960

* NOTE: This is a 'working draft' sequence. It currently consists of 22 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown.

* This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.

<pre> * 1 40: contig of 40 bp in length * 41 140: gap of 100 bp * 141 166: contig of 155 bp in length * 166 176: gap of 100 bp * 176 319: contig of 1429 bp in length * 319 329: gap of 100 bp * 329 559: contig of 2304 bp in length * 559 569: gap of 100 bp * 569 1003: contig of 4332 bp in length * 1003 10130: gap of 100 bp * 10131 13650: contig of 3520 bp in length * 13651 13756: gap of 100 bp * 13757 18728: contig of 4978 bp in length * 18729 18828: gap of 100 bp * 18829 21766: contig of 2932 bp in length * 21767 21865: gap of 100 bp * 21866 25279: contig of 3419 bp in length * 25280 25377: gap of 100 bp * 25378 29185: contig of 3806 bp in length * 29186 29285: gap of 100 bp * 29286 33428: contig of 4143 bp in length * 33429 33528: gap of 100 bp * 33529 39965: contig of 6433 bp in length * 39966 40061: gap of 100 bp * 40062 43365: contig of 3304 bp in length * 43366 43465: gap of 100 bp * 43467 48258: contig of 4753 bp in length * 48259 48358: gap of 100 bp * 48359 54545: contig of 6188 bp in length * 54546 54646: gap of 100 bp * 54647 65171: contig of 1025 bp in length * 65172 65271: gap of 100 bp * 65272 78708: contig of 13437 bp in length * 78709 78808: gap of 100 bp * 78809 90249: contig of 11441 bp in length * 90250 90349: gap of 100 bp * 90350 102855: contig of 12503 bp in length * 102855 102952: gap of 100 bp * 102953 114465: contig of 11514 bp in length * 114466 114565: gap of 100 bp * 114566 127728: contig of 13162 bp in length * 127729 127828: gap of 100 bp * 127829 146015: contig of 18187 bp in length. </pre>	FEATURES Location Qualifiers 1. 146015 1. 40_ <ul style="list-style-type: none"> /note="assembly_fragment clone_end:T7 vector_side:right"
misc_feature source	/clone_lib="RPCI-11_Human_Male_BAC"
misc_feature	1. 40_ <ul style="list-style-type: none"> /note="assembly_fragment" clone_end:T7 vector_side:right"
misc_feature	141. .1665
misc_feature	/note="assembly_fragment"
misc_feature	1766. .3194
misc_feature	/note="assembly_fragment"
misc_feature	3295. .5598
misc_feature	/note="assembly_fragment"
misc_feature	5699. .10030
misc_feature	/note="assembly_fragment"
misc_feature	141. .1665
misc_feature	/note="assembly_fragment"
misc_feature	1766. .3194
misc_feature	/note="assembly_fragment"
misc_feature	3295. .5598
misc_feature	/note="assembly_fragment"

REFERENCE MO 63108, USA
4 (bases 1 to 152251)
AUTHORS Waterston,R.H.
TITLE Direct Submission
JOURNAL Submitted (18-SEP-2001) Genome Sequencing Center, Washington University School of Medicine, 4444 Forest Park Parkway, St. Louis, MO 63108, USA
5 (bases 1 to 152251)
REFERENCE AUTHORS Waterston,R.
TITLE Direct Submission
JOURNAL Submitted (01-MAR-2002) Department of Genetics, Washington University, 4444 Forest Park Avenue, St. Louis, Missouri 63108, USA
COMMENT On Sep 18, 2001 this sequence version replaced gi|14916226.
----- Genome Center
Center: Washington University Genome Sequencing Center
Center code: WUGSC
Web site: <http://genome.wustl.edu/gsc>
Contact: sapiens@wustl.wustl.edu
----- Summary Statistics
Center project name: H_NHO391P01
Drafting Center: WIBR

repeat_region 206 .495
/rpt_family="MaLR"
repeat_region 563 .718
/rpt_family="L2"
repeat_region 1151 .1293
/rpt_family="L2"
repeat_region 1524 .1624
/rpt_family="L1"
repeat_region 1622 .1643
/rpt_family="AT_rich"
repeat_region 1628 .1694
/rpt_family="Alu"
repeat_region 1695 .2139
/rpt_family="L1"
repeat_region 1794 .1837
/rpt_family="(TG)n"
repeat_region 2149 .2433
/rpt_family="MaLR"
repeat_region 2449 .2161
/rpt_family="L1"
repeat_region 3162 .3456
/rpt_family="Alu"
repeat_region 3325 .3365
/rpt_family="(T)n"
repeat_region 3457 .3758
/rpt_family="L1"
repeat_region 3759 .4066
/rpt_family="Alu"
repeat_region 4067 .4492
/rpt_family="L1"
repeat_region 4493 .4779
/rpt_family="Alu"
repeat_region 4780 .6269
/rpt_family="L1"
repeat_region 6300 .6363
/rpt_family="L1"
repeat_region 6367 .6418
/rpt_family="ERVL"
repeat_region 6470 .6731
/rpt_family="L1"
repeat_region 7608 .7613
/rpt_family="(CA)n"
repeat_region 7956 .8394
/rpt_family="MaLR"
repeat_region 9284 .9382
/rpt_family="L1"
repeat_region 9480 .9537
/rpt_family="AT_rich"
repeat_region 9534 .9825
/rpt_family="Alu"
repeat_region 9934 .10443
/note="match to EST AI038041 (NID:93277235) ox29h03.x1"
repeat_region 10044 .10443
/note="match to EST AI038041 (NID:93277235) ox29h03.x1"
repeat_region 10054 .10075
/rpt_family="AT_rich"
repeat_region 10780 .11226
/note="match to EST T91378 (NID:9723291) yds3a07.s1"
repeat_region 10799 .10943
/note="match to EST H81620 (NID:g1059709) y866d09.s1"
repeat_region 10853 .10901
/rpt_family="(TG)n"
repeat_region 11080 .11325
/note="match to EST H81620 (NID:g1059709) y866d09.s1"
repeat_region 11246 .11379
/note="match to EST T84526 (NID:g12878) yds3a07.rl"
repeat_region 11828 .11945
/rpt_family="L2"
repeat_region 12091 .12249
/note="match to EST H81619 (NID:g1059708) y866d09.r1"
repeat_region 12098 .12249
/note="match to EST H81619 (NID:g1059708) y866d09.r1"

MAPPING INFORMATION:
Mapping information for this clone was provided by Dr. John D. McPherson, Department of Genetics, Washington University, St. Louis MO. For additional information about the map position of this sequence, see <http://genome.wustl.edu/gsc>

SOURCE INFORMATION:
The RPCI-11 human BAC library was made from the blood of one male donor, as described by Oseagava, K., Woon, P.Y., Zhao, B., Frengen, E., Tateno, M., Cataneo, J.J. and de Jong, P.J. (1998) An improved approach for construction of bacterial artificial chromosome libraries. Genomics 51:1-8. The clone may be obtained either from Research Genetics, Inc. (<http://www.resgen.com>) or Pieter de Jong and coworkers at <http://www.chori.org>
VECTOR: pBACE3.6

NEIGHBORING SEQUENCE INFORMATION:
The clone sequenced to the left is RP11-544E11, 2000 bp overlap; the clone sequenced to the right is RP11-710G17, 2000 bp overlap. The actual end of this clone is at base position 19440 of RP11-710J17.

Data from AC062333, AC061960, and AC02123 was used to finish this clone. AC023761, Polymorphisms have been identified between AC062033, AC061960, and AC023761.

The sequence of AC023761 has been incorporated into AC092642.

FEATURES Location/Qualifiers

source 1. .152251
/organism="Homo sapiens"
/mol_type="Genomic DNA"
/db_xref="Taxon:9606"
/chromosome="12"
/map="2"
/clone="RP11-391P1"
/clone lib="RPCI-11"
repeat_region 4 .169
/rpt_family="MaLR"

```

/note="match to EST T84526 (NID:9712878) yd53a07.r1"

repeat_region
12315..12336
/rpt_family="AT_rich"
15388..15522
/rpt_family="L2"
15621..15788
/rpt_family="(TG)n"
15831..15898
/rpt_family="(TG)n"
15934..16232
/rpt_family="Alu"
18507..18571
/rpt_family="L2"
19347..19607
/rpt_family="Alu"
20299..20328
/rpt_family="AT_rich"
20300..20413
/rpt_family="L1"
20821..21353
/rpt_family="L2"
21356..21468
/rpt_family="L1"
21446..21505
/rpt_family="AT_rich"
21504..21678
/rpt_family="MER1_type"
22507..22594
/rpt_family="Achobo"
22644..23228
/rpt_family="Achobo"

repeat_region
Best Local Similarity 2.28; Score 24; DB 9; Length 152251;
Matches 24; Conservative 100.0%; Pred. No. 0.24; Mismatches 0; Indels 0; Gaps 0

repeat_region
865 CTA.....GAA.....AACGT 888
Db 26051 CTA.....GAA.....AACRTT 26074

RESULT 10
BX922799
LOCUS BX272799 DNA linear HTGS_08-OCT
DEFINITION Danio rerio clone DKEY-146H10, WORKING DRAFT SEQUENCE, 7 unord
PIECES.
BX272799
BX272799_5 GT:54019870
VERSION 146H10
KEYWORD HTGS_PHASE1; HTGS_ACTIVEFIN; HTGS_DRAFT; HTGS_FULLTOP.
SOURCE Danio rerio [zebrafish]
ORGANISM Danio rerio
COMMENT Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostei;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi;
Cypriniformes; Cyprinidae; Danio.
REFERENCE 1 (bases 1 to 155054)
AUTHORS Heath, P.
TITLE Direct Submission
JOURNAL Submitted (07-OCT-2004) Wellcome Trust Sanger Institute, Hinxton
Cambridgeshire, CB10 1SA, UK. E-mail enquiries:
zfish-help@sanger.ac.uk Clone requests: clonerequest@sanger.ac
On Oct 9, 2004 this sequence version replaced gi:52313301.
COMMENT Center: Wellcome Trust Sanger Institute
Center code: SC
Web site: http://www.sanger.ac.uk
Contact: zfish-help@sanger.ac.uk
Project name: K146H10
Center project name: K146H10
----- Summary Statistics
Assembly program: XGAP; version 4.5
Chemistry: Dy-terminator; 100% of reads
Consensus quality: 153838 bases at least Q40
Consensus quality: 153835 bases at least Q30
Consensus quality: 154016 bases at least Q20

```

```

Insert size: 154454; sum-of-contigs
Insert size: 155561; 1.9† error; agarose-fp
Quality coverage: 11.18x in Q20 bases; sum-of-contigs Quality
coverage: 10.90x in Q20 bases; agarose-fp

* NOTE: This is a 'working draft' sequence. It currently
* consists of 7 contigs. The true order of the pieces
* is not known and their order in this sequence record is
* arbitrary. Gaps between the contigs are represented as
* runs of N, but the exact sizes of the gaps are unknown.
* This record will be updated with the finished sequence
* as soon as it is available and the accession number will
* be preserved.

*      1       33656: contig of 33656 bp in length
*      1       33756: gap of 100 bp
*      1       33757: contig of 17343 bp in length
*      1       51100: gap of 100 bp
*      1       51199: gap of 100 bp
*      1       51200: contig of 9897 bp in length
*      1       60097: gap of 100 bp
*      1       60197: contig of 25672 bp in length
*      1       85869: gap of 100 bp
*      1       85969: contig of 30623 bp in length
*      1       116592: gap of 100 bp
*      1       116691: gap of 100 bp
*      1       116692: contig of 30977 bp in length
*      1       147669: gap of 100 bp
*      1       147769: contig of 7286 bp in length.

FEATURES
Source
  misc_feature
    note="assembly_fragment:00001
    fragment_chain:T"
    misc_feature
      note="assembly_fragment:01606
      fragment_chain:T"
    misc_feature
      note="assembly_fragment:02382
      fragment_chain:T"
    misc_feature
      note="assembly_fragment:02383
      fragment_chain:T"
    misc_feature
      note="assembly_fragment:02384
      fragment_chain:T"
    misc_feature
      note="assembly_fragment:0526.0"
      misc_feature
        note="assembly_fragment:01071"
      misc_feature
        note="assembly_fragment:02238"
  ORIGIN
    Query Match          2.2%; Score 24; DB 2; Length 155054;
    Best Local Similarity 100.0%; Prod. No. 0; Mismatches 0; Indels 0; Gaps
    Matches 24; Conservative 0; Gaps
  Qy   868 AAAAGAGAAAAAAACTGTTCAA 891
  Db   92426 AATAGGAAADAAAACGTGTTCAA 92449

RESULT 11
BX001022/c BX001022 DNA sequence from clone CR211-243019, complete sequen
LOCUS DEFINITION Debrabata; Chordata; Craniata; Vertebrata; Euteleostomi
ACCESSION BX001022 BX001022
VERSION BX001022.9 GI:37652295
KEYWORDS HTG.
ORGANISM Danio rerio (zebrafish)
  Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Actinopterygii; Neopterygii; Teleostei; Ostariophysi;
  Actinopterygii; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

```

REFERENCE	Cypriniformes; Cyprinidae; <i>Danio</i> . Giesselle_H. Direct Submission	REFERENCE AUTHORS TITLE JOURNAL	Cypriniformes; Cyprinidae; <i>Danio</i> . 1 ('bases 1 to 185217) Ellwood,M. Direct Submission
JOURNAL	Submitted (11-OCT-2003) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: zfish-help@sanger.ac.uk. Clone requests: clonerequest@sanger.ac.uk	JOURNAL	Submitted (08-OCT-2004) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: zfish-help@sanger.ac.uk. Clone requests: clonerequest@sanger.ac.uk
COMMENT	On Oct 13, 2003 this sequence version replaced gi:35209032.	COMMENT	On Sep. 9, 2004 this sequence version replaced gi:51592026.
Center: Genome Center	Center: Wellcome Trust Sanger Institute	Center: Genome Center	Center: Wellcome Trust Sanger Institute
Center code: SC	Web site: http://www.sanger.ac.uk	Center code: SC	Web site: http://www.sanger.ac.uk
Contact: zfish-help@sanger.ac.uk	Contact: zfish-help@sanger.ac.uk	Contact: zfish-help@sanger.ac.uk	Contact: zfish-help@sanger.ac.uk
-----	-----	-----	-----
During sequence assembly data is compared from overlapping clones. Where differences are found these are annotated as variations together with a note of the overlapping clone name. Note that the variation annotation may not be found in the sequence submission corresponding to the overlapping clone, as we submit sequences with only a small overlap as described above.	This sequence was finished as follows: unless otherwise noted: all regions were either double-stranded or sequenced with an alternate chemistry or covered by high quality data (i.e., phred quality >= 30); an attempt was made to resolve all sequencing problems, such as compressions and repeats; all regions were covered by at least one plasmid subclone or more than one M13 subclone; and the assembly was confirmed by restriction digest, except on the rare occasion of the clone being a YAC.	-----	* NOTE: This is a 'working draft' sequence. It currently consists of 1 contigs. Gaps between the contigs are represented as runs of N. The order of the pieces are believed to be correct as given, however the sizes of the gaps between them are based on estimates that have been provided by the submitter.
The following abbreviations are used to associate primary accession numbers given in the feature table with their source databases: Em: EMBL; Sw: SWISSPROT; Tr: TREMBL; Wp: WORMBP; Information on the WORMBP database can be found at http://www.sanger.ac.uk/Projects/C_elegans/wormpep_Clone-derived_Zebrafish_PUC_subclones occasionally display inconsistency over the length of mononucleotide A/T runs and conserved TA repeats. Where this is found the longest good quality representation will be submitted.	-----	-----	* This sequence will be replaced by the finished sequence as soon as it is available and the accession number will be preserved.
Repeat names beginning 'Dr' were identified by the Recon repeat discovery system (Zhirong Bao and Sean Rddy, submitted), and those beginning 'drr' were identified by Rick Waterman (Stephen Johnson lab, WashU). For further information see http://www.sanger.ac.uk/Projects/D_rerio/fishmask.shtml	-----	-----	* the accession number will be preserved.
-----	-----	-----	-----
FEATURES	FEATURES	FEATURES	FEATURES
source	source	source	source
-----	-----	-----	-----
ORIGIN	ORIGIN	ORIGIN	ORIGIN
-----	-----	-----	-----
RESULT 12	RESULT 13	RESULT 14	RESULT 15
BX927400/C	BX649502/C	BX649502/C	BX649502/C
LOCUS	LOCUS	LOCUS	LOCUS
DEFINITION	DEFINITION	DEFINITION	DEFINITION
Danio rerio clone CH211-195K18, WORKING DRAFT SEQUENCE.	Zebrafish DNA sequence from clone DKF1-204F11 in linkage group 3, complete sequence.	Zebrafish DNA sequence from clone DKF1-204F11 in linkage group 3, complete sequence.	Zebrafish DNA sequence from clone DKF1-204F11 in linkage group 3, complete sequence.
ACCESSION	ACCESSION	ACCESSION	ACCESSION
BX927400	BX649502	BX649502	BX649502
VERSION	VERSION	VERSION	VERSION
BX927400..6 GI:51965253	HTG5..6 GI:39540484	HTG5..6 GI:39540484	HTG5..6 GI:39540484
KEYWORDS	KEYWORDS	KEYWORDS	KEYWORDS
Danio rerio (zebrafish)	Danio rerio (zebrafish)	Danio rerio (zebrafish)	Danio rerio (zebrafish)
SOURCE	SOURCE	SOURCE	SOURCE
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; <i>Danio</i> .	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; <i>Danio</i> .	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; <i>Danio</i> .	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi; Cypriniformes; Cyprinidae; <i>Danio</i> .
ORGANISM	ORGANISM	ORGANISM	ORGANISM

REFERENCE		REFERENCE	Cypriniformes; Cyprinidae; <i>Danio</i> .
AUTHORS	Whitehead,S.	AUTHORS	1 (bases 1 to 263169)
TITLE	Direct Submission	JOURNAL	Sims,S.
JOURNAL	Submitted (06-DEC-2003) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: zfish-help@sanger.ac.uk Clone requests: clonerrequest@sanger.ac.uk	COMMENT	Direct Submission Submitted (04-APR-2004) Wellcome Trust Sanger Institute, Hinxton, Cambridgeshire, CB10 1SA, UK. E-mail enquiries: zfish-help@sanger.ac.uk Clone requests: clonerrequest@sanger.ac.uk On Apr 6, 2004 this sequence version replaced gi:46200415.
COMMENT	On Dec 6, 2003 this sequence version replaced gi:38201304.	COMMENT	Genome Center
Center:	Wellcome Trust Sanger Institute	Center:	Wellcome Trust Sanger Institute
Center code:	SC	Center code:	SC
Web site:	http://www.sanger.ac.uk	Web site:	http://www.sanger.ac.uk
Contact:	zfish-help@sanger.ac.uk	Contact:	zfish-help@sanger.ac.uk
		Project Information	
		Center project name:	zk54K13
		Summary Statistics	
		Assembly program: XGAP4; version 4.5	
		Chemistry: Dye-terminator; 100% of reads	
		Consensus quality: 260222 bases at least Q40	
		Consensus quality: 260911 bases at least Q30	
		Consensus quality: 261370 bases at least Q20	
		Insert size: 262069; sum-of-contigs	
		Insert size: 249466; 4.6% error; agarose-fp	
		Quality coverage: 8.81x in Q0 bases; sum-of-contigs Quality coverage: 9.35x in Q20 bases; agarose-fp	
		NOTE: This is a 'working draft' sequence. It currently consists of 12 contigs. The true order of the pieces is not known and their order in this sequence record is arbitrary. Gaps between the contigs are represented as runs of N, but the exact sizes of the gaps are unknown.	
		This record will be updated with the finished sequence as soon as it is available and the accession number will be preserved.	
		*	1 8720: contig of 8720 bp in length
		*	8721 34199: contig of 25379 bp in length
		*	34200 34299: gap of 100 bp
		*	34300 61537: contig of 27238 bp in length
		*	61538 61637: gap of 100 bp
		*	61638 82341: contig of 20704 bp in length
		*	82342 82441: gap of 100 bp
		*	82442 113587: contig of 31146 bp in length
		*	113588 113687: gap of 100 bp
		*	113688 117389: contig of 3702 bp in length
		*	117390 117489: gap of 100 bp
		*	117490 169953: contig of 52464 bp in length
		*	169954 170053: gap of 100 bp
		*	170054 191893: contig of 21840 bp in length
		*	191894 191993: gap of 100 bp
		*	191994 232102: contig of 40109 bp in length
		*	232103 232202: contig of 100 bp
		*	232203 235712: contig of 3510 bp in length
		*	235713 235812: gap of 100 bp
		*	235813 256314: contig of 20502 bp in length
		*	256315 256414: gap of 100 bp
		*	256415 263169: contig of 6755 bp in length.
FEATURES	Location/Qualifiers	Source	Location/Qualifiers
SOURCE			1. 263169
	/organism="Danio rerio"		/organism="Danio rerio"
	/mol type="genomic DNA"		/mol type="genomic DNA"
	/db_xref="taxon:7955"		/db_xref="taxon:7955"
	/clones="DKEY-204F11"		/clone="DKEY-54K13"
	/clone_lib="DanioKey"		/clone lib="DanioKey"
ORIGIN			
QRY	867 AAAAGAAAAAAAGCTGTCA 890		
DB	64795 AAAAGAAAAAAAGCTGTCA 64772		
RESULT	14		
BX927111/C	BX927111 263169 bp	DNA	Linear HTG 05-APR-2004
LOCUS	Danio rerio clone DKEY-54K13, ***		SEQUENCING IN PROGRESS ***, 12
DEFINITION	unordered pieces.		
ACCESSION	BX927111 5		fragment_chain_1
VERSION	BX927111 5		/note="assembly_fragment:00210
KEYWORDS	Danio rerio (zebrafish)		8821. 34199
SOURCE	Danio rerio		/note="assembly_fragment:01606
ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Buteleostomi; Actinopterygii; Neopterygii; Teleostei; Ostariophysi;		fragment_chain_1
			/note="assembly_fragment:01245

misc_feature 61638 .82341
 /note=assembly fragment:00629
 fragment chain:1
 misc_feature 82442 .113567
 /note=assembly fragment:01994
 fragment chain:1
 misc_feature 11368 .117389
 /note=assembly fragment:00023
 fragment chain:1
 misc_feature 117490 .16953
 /note=assembly fragment:03001
 fragment chain:1
 misc_feature 170054 .194893
 /note=assembly fragment:00915
 fragment chain:1
 misc_feature 191994 .231102
 /note=assembly fragment:02450
 fragment chain:1
 misc_feature 232203 .23571
 /note=assembly fragment:00058
 fragment chain:1
 misc_feature 235813 .253314
 /note=assembly fragment:00359
 fragment chain:1
 misc_feature 256415 .253169
 /note=assembly fragment:00104
 fragment chain:1
 ORIGIN
 Query Match 2.2% Score 24; DB 2; Length 261169;
 Best Local Similarity 100.0% Pred. No. 0.24;
 Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 867 AAAAAGAAAAAACTGTTCA 890
 DB 251704 AAAAAGAAAAAAACTGTTCA 251681
 RESULT 15
 AC128496/C 291544 bp DNA linear HTG 19-NOV-2002
 LOCUS Rattus norvegicus clone CH230-444D9, WORKING DRAFT SEQUENCE, 3
 DEFINITION unordered pieces.
 ACCESSION AC128496
 VERSION AC128496.3 GI:25085139
 KEYWORDS HTG; HTGS PHASEI; HTGS DRAFT; HTGS FULLTOP.
 SOURCE Rattus norvegicus (Norway rat)
 ORGANISM Rattus norvegicus
 Mammalia; Eutheria; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Rodentia; Muridae; Murinae;
 Rattus.
 REFERENCE 1 (bases 1 to 291544)
 AUTHORS Muzny, D. Marie, Metzker, M. Lee, Abramzon, S., Adams, C., Alder, J.,
 Allen, C., Allen, H., Alsbrooks, S., Amin, A., Anguiano, D.,
 Anyalebechi, V., Ayodeji, M., Baca, E., Baden, H.,
 Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Benahmed, F.,
 Biswalo, K., Blair, J., Blanckenburg, K., Blayth, P., Brown, M.,
 Bryant, N., Buhay, C., Burch, P., Burrell, K., Calderon, E.,
 Cardenas, V., Carter, K., Cavazos, I., Caesar, H., Center, A.,
 Chacko, J., Chavez, D., Chen, G., Chen, Y., Chen, Z., Chu, J.,
 Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, L.,
 Davila, M.L., Davis, C., Davy-Carroll, L., De Anda, C., Dederich, D.,
 Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, H., Divya, K.,
 Draper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K.,
 Egan, A., Escott, M., Eugenio, C., Evans, C.A., Falls, T., Fan, G.,
 Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P.,
 Fraser, C.M., Gabisa, A., Ganta, R., Garcia, M., Garza, T., Grady, M.,
 Guevara, W., Guevara, W., Gunaratne, P., Haaland, W., Hamil, C., Hamilton, K.,
 Harvey, Y., Havlik, P., Hayes, A., Henderson, N., Herranz, J.,
 Hernandez, R., Hines, S., Hladun, S.L., Hodgson, A., Hogues, M.,
 Hollins, B., Howell, S., Hulyk, S., Hume, J., Idlebird, D., Jackson, A.,
 Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A.,
 Karpathy, S., Kelly, S., Khan, Z., King, L., Kovar, C.,
 Kowis, C., Kraft, C.L., Lebow, H., Lewis, I., Li, Z., Liu, J.,
 Liu, J., Liu, W., Liu, Y., London, P., Longacre, S.,
 Lorenshewa, L., Louisged, H., Lozano, R.J., Lu, X., Ma, J.,
 Maheeshwari, M., Mahindarne, M., Mahmoud, M., Mallory, K., Martin, R., Martinez, E.,
 Mawhinney, S., McLeod, M.P., McNeill, T.Z., Meenan, E.,
 Milosavljevic, A., Miner, G., Minja, E., Montmayor, J., Moore, S.,
 Morgan, M., Morris, K., Morris, S., Munidasa, M., Murphy, M., Nair, L.,
 Nanikriss, C., Neal, D., Newton, N., Nguyen, N., Norris, S.,
 Nwakelume, O., Okwonou, G., Olarnpunsaeng, A., Pal, S., Parks, K.,
 Pasternak, S., Paul, H., Perez, L., Pfannkoch, C.,
 Plopper, P., Poinderster, A., Popovic, D., Primus, E., Pu, L.-L.,
 Puazo, M., Quiroz, J., Rachlin, B., Reeves, K., Regier, M.A., Reigh, R.,
 Reilly, J., Railly, M., Ren, Y., Reuter, M., Richards, S., Rigg, F.,
 Rives, C., Rodkey, T., Rojas, A., Rose, R., Ruiz, S.J.,
 Sanders, W., Savery, G., Scherer, S., Scott, G., Shatsman, S., Shen, H.,
 Shetty, J., Shravatsbeyn, A., Siisson, I., Sitter, D., Smajis, D.,
 Sneed, A., Soderquist, E., Song, X.-Z., Sorelle, R., Sosa, J.,
 Steinle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C.,
 Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Usmani, K.,
 Valas, R., Vera, V., Villasana, D., Waldron, L., Walker, B., Wang, J.,
 Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F.,
 Williams, G., Wilson, R., Wlezcyk, R., Wooden, H., Worley, K.,
 Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V.,
 Yu, P., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Dunn, D., von
 Niederhausern, A., Weiss, R., Smith, D.R., Holt, R.A., Smith, H.O.,
 Weinstock, G., and Gibbs, R.A.

TITLE Unpublished
 JOURNAL
 REFERENCE 2 (bases 1 to 291544)
 AUTHORS Direct Submission
 TITLE Unpublished
 JOURNAL
 COMMENT Submitted (19-JUL-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 3 (bases 1 to 291544)
 REFERENCE Rat Genome Sequencing Consortium.
 AUTHORS Direct Submission
 TITLE Unpublished
 JOURNAL Submitted (19-NOV-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 On Nov 19, 2002 this sequence version replaced gi:23907748
 and whole genome shotgun sequencing reads assembled using Atlas
 (<http://www.hgsc.bcm.tmc.edu/projects/rat/>). Each contig described
 in the feature table below represents a scaffold in the Atlas
 assembly (a contig-scaffold). Within each contig-scaffold,
 individual sequence contigs are ordered and oriented, and separated
 by sized gaps filled with Ns to the estimated size. The sequence
 may extend beyond the ends of the clone and there may be sequence
 contigs within a contig-scaffold that consist entirely of whole
 genome shotgun sequence reads. Both end sequences and whole genome
 shotgun sequence only contigs will be indicated in the feature
 table.

----- Genome Center
 Center code: BCM
 Web site: <http://www.hgsc.bcm.tmc.edu/>
 Contact: hgsc-help@bcm.tmc.edu
 ----- Project Information
 Center project name: GYFW
 Center clone name: CH230-444D9
 ----- Summary Statistics
 Assembly program: Phrap; version 0.990329
 Consensus quality: 187201 bases at least Q40
 Consensus quality: 189489 bases at least Q30
 Consensus quality: 191416 bases at least Q20
 Estimated insert size: 193264; sum-of-contigs estimation
 Quality coverage: 7x in Q20 bases; sum-of-contigs estimation

* NOTE: Estimated insert size may differ from sequence length
 * (see http://www.hgsc.bcm.tmc.edu/docs/Genbank_draft_data.html).

* NOTE: This is a 'working draft' sequence. It currently
 * consists of 3 contigs. The true order of the pieces
 * is not known and their order in this sequence record is
 * arbitrary. Gaps between the contigs are represented as
 * runs of N, but the exact sizes of the gaps are unknown.
 * This record will be updated with the finished sequence
 * as soon as it is available and the accession number will
 * be preserved.

```

  * 1 288506: contig of 288506 bp in length
  * 288507 288606: gap of unknown length
  * 288607 289949: contig of 1343 bp in length
  * 289950 290049: gap of unknown length
  * 290050 291544: contig of 1495 bp in length.

FEATURES
  source
    /organism="Rattus norvegicus"
    /mol_type="genomic DNA"
    /db_xref="taxon:10116"
    /clone="CH230-44D9"
  misc_feature
    1. 1841
      /note="wgs end_extension
      clone_end:T7"
    6777. 7677
      /note="clone_boundary
      clone_end:T7
      site:
        end_sequence:JB198832"
      complement(187560..188645)
      /note="clone_boundary
      clone_end:Sp6"
      site:
        end_sequence:BZ198833"
    189481. 192835
      /note="wgs end_extension
      clone_end:Sp6"
    195009. 196648
      /note="wgs end_extension
      clone_end:Sp6"
  misc_feature
  misc_feature
  misc_feature
  ORIGIN
```

```

Query Match          2.2%; Score 24; DB 2; Length 291544;
Best Local Similarity 100.0%; Pred. No. 0.24;
Matches 24; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy          867 AAAAAGAAAAAAACTGTTCA 890
Db          130151 AAAAAGAAAAAAACTGTTCA 130128
```

Search completed: August 29, 2005, 04:52:49
 Job time : 51.69 secs

Gencore version 5.1.6
 Copyright (c) 1993 - 2005 Compugen Ltd.
 DOM nucleic - nucleic search, using SW model
 run on: August 29, 2005, 00:19:31 ; Search time 701 Seconds
 (without alignments)
 9382.072 Million cell updates/sec
 title: US-09-979-549-2
 perfect score: 1111
 sequence: 1 gaagtcagaaggccgttcag.....ccgagaagagagaggagag 1111.
 Scoring table: OLIGO_NUC
 Gapop 60.0 , Gapext 60.0
 Searched: 4390206 seqs, 2959870667 residues
 Word size : 0
 Total number of hits satisfying chosen parameters: 8780412
 Abv21724 Human pro
 Abv27546 Human pro
 Abk88932 Human CD1
 Abd3381 Human car
 Adq97557 Human car
 Adz08670 Human leu
 Abk64451 Human ben
 Abv48688 Human pro
 Aai85788 Human pol
 Abg5941 Human col
 Aav89657 EST clone
 Ach22705 Human adu
 Aas36746 Human car
 Ade47440 Human car
 Adj08888 Human car
 Aak5228 Human pol
 Abd87555 Plasmid P
 Aab03455 Human cDN
 Aaa08590 Human cyt
 Adi42697 Plant trc
 Ado02953 Soybean c
 Acn92902 Breast cc
 Acn38938 Tumour-a
 Axr87624 Set^{*} spli
 Abx73234 DNA encod
 45 20 1.8 2577 6

Post-processing: Listing first 45 summaries

S							
	Result No.	Score	Query Match	Length	DB	ID	
1	1111	100.0	2687	5	AAC18		
2	22	2.0	141	6	ABL18		
3	22	2.0	144	6	ABL18		
4	22	2.0	154	6	ABL18		
5	22	2.0	213	6	ABL18		
c	6	22	2.0	1074	5	ADL16	
c	7	22	2.0	2395	4	ABL18	
c	8	21	1.9	3377	2	AAV8	
c	9	21	1.9	403	3	AAC2	
c	10	21	1.9	622	4	AAF1	
c	11	21	1.9	1097	3	AAF1	
c	12	21	1.9	2000	8	ADA7	
c	13	21	1.9	2170	4	AAH7	
c	14	21	1.9	2170	5	ABV2	
c	15	21	1.9	2170	5	ABV2	
c	16	21	1.9	2170	5	ABV2	
c	17	21	1.9	2170	5	ABV2	
c	18	21	1.9	3191	3	AAA1	
c	19	21	1.9	3618	6	ABL7	
c	20	21	1.9	4522	3		

ALIGNMENTS

```

RESULT 1
AAC84132 AAC84132 standard; DNA; 2687 BP.
ID AAC84132
XX DT 09-APR-2001 (first entry)
XX DE Wheat TaTrxh2 gene.
XX KW wheat; TaTrxh2; thioreddoxin; promoter; gene expression; transgenic plant;
monocotyledon; plant cell; seed; amyloseous albumen; ds.
XX KW OS Triticum aestivum.
XX
Key Location/Qualifiers
promoter 1. .1111
FT /tag= a /note= "promoter region is specifically claimed"
FT misc_signal 550. .558
FT FT /label= Gibberellic acid response element
FT /function= "regulates gene expression in response to
FT gibberellic acid"
FT misc_signal 561. .569
FT FT /tag= c /label= Gibberellic acid response element
FT /function= "regulates gene expression in response to
FT gibberellic acid"
protein_bind 659. .708
FT FT /tag= d /bound_moiety= "GCN4-like protein"
FT misc_signal 867. .883
FT FT /tag= f /function= "possible regulator of gene expression in
FT response to abscisic acid"
FT /note= "present in thioredoxin h gene promoter sequences
from tobacco and rice"
FT

```

		Location/Qualifiers
13:	geneseqn2004bs:*	
		XX
		OS
		XX
		FR
		Kev
		Triticum aestivum.

RESULT 4	AC	ABI86948;
ABL86321	XX	XX
ID ABL86321 standard; cDNA; 154 BP.	DT	17-MAY-2002 (first entry)
XX	XX	XX
Human ovarian cancer related cDNA clone SEQ ID NO:9299.	DE	Human ovarian cancer related cDNA clone SEQ ID NO:9926.
XX	XX	XX
Human; ovarian cancer; ovarian tumour; cytostatic; gene; ss.	KW	Human; ovarian cancer; ovarian tumour; cytostatic; gene; ss.
XX	XX	XX
Homo sapiens.	OS	Homo sapiens.
XX	XX	XX
WO200192581-A2.	PN	WO200192581-A2.
XX	XX	XX
06-DEC-2001.	PD	06-DEC-2001.
XX	XX	XX
29-MAY-2001; 2001WO-US017756.	PF	29-MAY-2001; 2001WO-US017756.
XX	XX	XX
PR 26-MAY-2000; 2000US-0207484P.	PR	26-MAY-2000; 2000US-0207484P.
XX	XX	XX
(CORI-) CORIXA CORP.	PA	(CORI-) CORIXA CORP.
XX	XX	XX
Algate PA, Harlocker SL, Jones R;	PI	Algate PA, Harlocker SL, Jones R;
XX	XX	XX
DR 2002-122075/16.	DR	WPI; 2002-122075/16.
XX	XX	XX
Composition for therapy and diagnosis of ovarian cancer comprising polypeptide of a ovarian tumor polypeptide, polynucleotide encoding polypeptide, antibody specific to polypeptide or T cell expressing polypeptide.	PT	Composition for therapy and diagnosis of ovarian cancer comprising carriers and immunostimulants; and a polypeptide (III) of a ovarian tumour polypeptide encoded by a polynucleotide (III) having a cDNA sequence (S1) from the 10912 nucleotide sequences as given in ABL7023 to ABL87934, (III) encoding (III) having a sequence (S2), a T cell population of (II), or antigen presenting cells that express (III); (I) has cytostatic activity. An oligonucleotide (IV) can be used for detecting ovarian cancer in a patient's biological sample preferably serum or ovarian tissue. The method comprises contacting a biological sample from a patient with (IV), detecting the amount of polynucleotide hybridising to (IV) and comparing the amount to a predetermined cutoff value and thereby detecting ovarian cancer in the patient, where the amount of polynucleotide hybridising to (IV) is detected preferably by polymerase chain reaction (PCR). (I) comprising (III) and/or (II) is useful for stimulating and/or expanding T cells specific for an ovarian tumour protein comprising contacting T cells with (III) or (II). (III) is useful in design and preparation of ribozyme molecules for inhibiting expression of the tumour polypeptides and proteins in tumour cells; and to isolate a full length gene from a suitable library e.g., a tumour cDNA library using well known techniques
PS 29-MAY-2001; 489pp; English.	PS	PS Claim 1; SEQ ID NO 9926; 489pp; English.
XX	XX	XX
PT PS	PT PS	PT PS
Composition for therapy and diagnosis of ovarian cancer comprising carriers and immunostimulants; and a polypeptide (III) of a ovarian tumour polypeptide, antibody specific to polypeptide or T cell expressing polypeptide.	PT	Composition for therapy and diagnosis of ovarian cancer comprising carriers and immunostimulants; and a polypeptide (III) of a ovarian tumour polypeptide encoded by a polynucleotide (III) having a cDNA sequence (S1) from the 10912 nucleotide sequences as given in ABL7023 to ABL87934, (III) encoding (III) having a sequence (S2), a T cell population of (II), or antigen presenting cells that express (III); (I) has cytostatic activity. An oligonucleotide (IV) can be used for detecting ovarian cancer in a patient's biological sample preferably serum or ovarian tissue. The method comprises contacting a biological sample from a patient with (IV), detecting the amount of polynucleotide hybridising to (IV) and comparing the amount to a predetermined cutoff value and thereby detecting ovarian cancer in the patient, where the amount of polynucleotide hybridising to (IV) is detected preferably by polymerase chain reaction (PCR). (I) comprising (III) and/or (II) is useful for stimulating and/or expanding T cells specific for an ovarian tumour protein comprising contacting T cells with (III) or (II). (III) is useful in design and preparation of ribozyme molecules for inhibiting expression of the tumour polypeptides and proteins in tumour cells; and to isolate a full length gene from a suitable library e.g., a tumour cDNA library using well known techniques
XX	XX	XX
Sequence 154 BP; 59 A; 28 C; 54 G; 13 T; 0 U; 0 Other;	SQ	Sequence 213 BP; 79 A; 45 C; 70 G; 19 T; 0 U; 0 Other;
XX	XX	XX
Query Match 2.0%; Score 22; DB 6; Length 154;	QY	Query Match 2.0%; Score 22; DB 6; Length 213;
Best Local Similarity 100.0%; Pred. No. 2;	DB	Best Local Similarity 100.0%; Pred. No. 2.1;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX	XX	XX
Sequence 154 BP; 59 A; 28 C; 54 G; 13 T; 0 U; 0 Other;	QY	862 AGCCTAAAGAGAAAAAAA 883
XX	XX	XX
Query Match 2.0%; Score 22; DB 6; Length 154;	DB	163 AGCCTAAAGAGAAAAAAA 184
Best Local Similarity 100.0%; Pred. No. 2;		
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;		
XX	XX	XX
862 AGCCTAAAGAGAAAAAAA 883	RESULT 6	ADL62118/C
112 AGCCTAAAGAGAAAAAAA 133	ID	ADL62118 standard; DNA; 1074 BP.
XX	XX	XX
20-MAY-2004 (first entry)	DT	20-MAY-2004
Human ovarian cancer DNA marker #20330.	DE	Human ovarian cancer DNA marker #20330.
XX	XX	XX
RESULT 5		
ABL86948		
ID ABL86948 standard; cDNA; 213 BP.	ID	
XX	XX	XX

KW Human; ovarian cancer; ds; tumour; cytostatic; DNA marker.
 XX Homo sapiens.
 OS WO200170979-A2.
 XX PD 27-SEP-2001.
 XX PF 21-MAR-2001; 2001WO-US009126.
 XX PR 21-MAR-2000; 2000US-0191031P.
 XX PR 25-MAY-2000; 2000US-0207124P.
 XX PR 15-JUN-2000; 2000US-0211940P.
 XX PR 07-JUL-2000; 2000US-0216820P.
 XX PR 25-JUL-2000; 2000US-0220661P.
 XX PR 21-DEC-2000; 2000US-0257672P.
 XX PA (MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
 XX PI Lee J, Lillie J;
 XX DR WPI; 2001-611502/70.
 XX PT Novel isolated nucleic acid molecules (markers) overexpressed in ovarian cancer cells as compared to their normal non-cancerous ovarian cells are used to characterize stage, grade, histological type of ovarian cancer.
 PS Disclosure: SEQ ID NO 20330; 105pp; English.
 CC The invention relates to nucleic acid markers which are overexpressed in ovarian cancer cells as compared to their expression in normal (i.e. non-cancerous) ovarian cells. The invention also relates to polypeptides encoded by the markers, antibodies that selectively bind to the polypeptides, a method of inhibiting ovarian cancer comprising providing to a patient at risk corresponding to a marker of the invention and a method of treating a patient afflicted with ovarian cancer comprising providing to a patient an antisense oligonucleotide complementary to a marker of the invention. The markers are useful for assessing if a patient is afflicted with ovarian cancer, which involves comparing the level of expression of a marker in a patient sample and a normal level of expression of the marker in a control non-ovarian cancer sample. A difference between the expression levels indicates ovarian cancer. The level of expression of a marker corresponds to a secreted protein or to a transcribed polynucleotide or its portion. The level of expression of the marker is assessed by detecting the presence in the sample, a protein or protein fragment corresponding to the marker. The presence of protein or protein fragment is detected using an antibody that specifically binds with the protein or protein fragment. Alternatively, the level of expression of the marker is assessed by detecting the presence of a transcribed polynucleotide which anneals with the marker or anneals with a portion of the polynucleotide comprising the marker, under stringent conditions. The marker is also used for monitoring the progression of ovarian cancer in a patient which involves detecting expression of the marker in a patient sample at a first point in time, repeating the method at a subsequent time and comparing the level of expression. The method is carried out using an ovarian tissue sample. A composition comprising a marker, polypeptide or antibody of the invention is used to treat ovarian cancer. This sequence represents a human ovarian cancer DNA marker of the invention.
 XX Sequence 1074 BP; 194 A; 278 C; 290 G; 300 T; 0 U; 12 Other;
 SQ Query Match 2.0%; Score 22; DB 5; Length 1074;
 Best Local Similarity 100.0%; Pred. No. 2.2;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 867 AAAAAGAAAAAAACTGTTT 888
 Db 427 AAAAAGAAAAAAACTGTT 406
 RESULT 7

KW ABL10390/C
 ID ABL10390 standard; cDNA; 24935 BP.
 XX AC ABL10390;
 XX DT 26-MAR-2002 (first entry)
 XX DE Drosophila melanogaster expressed polynucleotide SEQ ID NO 25652.
 XX KW Drosophila; developmental biology; cell signalling; insecticide;
 pharmaceutical; gene; ss.
 XX OS Drosophila melanogaster.
 XX PN WO200171042-A2.
 XX PD 27-SEP-2001.
 XX PP 23-MAR-2001; 2001WO-US009231.
 XX PR 23-MAR-2000; 2000US-0191637P.
 XX PR 11-JUL-2000; 2000US-00614150.
 XX PA (PBKB) PB CORP NY.
 XX PI Venter JC, Adams M, Li PWD, Myers EW;
 XX DR WPI; 2001-056860/75.
 XX DR P-PSDB; ABB66287.
 XX PS SEQ ID NO 25652; 21pp + Sequence Listing; English.
 XX New isolated nucleic acid detection reagent for detecting 1000 or more genes from Drosophila and for elucidating cell signaling and cell-cell interactions.
 XX PS Claim 1; SEQ ID NO 25652; 21pp + Sequence Listing; English.
 XX The invention relates to an isolated nucleic acid detection reagent capable of detecting 1000 or more genes from Drosophila. The invention is useful in developmental biology and in elucidating cell signalling and cell-cell interactions in higher eukaryotes for the development of insecticides, therapeutics and pharmaceutical drugs. The invention discloses genomic DNA sequences (ABL16176-ABL0511), expressed DNA sequences (ABL01840-ABL16175) and the encoded proteins (ABB5737-ABB72072). The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from WIPO at ftp.wipo.int/pub/published_pct_sequences
 XX SQ Sequence Match 2.0%; Score 22; DB 4; Length 24935;
 Best Local Similarity 100.0%; Pred. No. 2.4;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 872 AGAGAAAAAAACTGTTCAATC 893
 Db 12697 AGAGAAAAAAACTGTTCAATC 12676
 RESULT 8
 AAV86132/C
 ID AAV86132 standard; cDNA; 377 BP.
 XX AC AAV86132;
 XX DT 27-APR-1999 (first entry)
 XX DE EST clone H165.
 XX KW Expressed sequence tag; secreted protein; haemopoiesis regulator;
 tissue growth; activin; inhibitor; tumour invasion suppressor; EST; human;
 KW chemotaxis; chemokines; haemostasis; gene therapy; thrombolytic;
 receptor; ligand; anti-inflammatory; tumour inhibitor; ds.
 XX

PI	Dumas Milne Edwards J,	Ducleurt A,	Giordano J;	
XX	XX	XX	XX	WPI; 2000-500381/45.
XX	DR	PT	PT	New nucleic acid that is a 5' expressed sequence tag (5' EST) for obtaining cDNAs and genomic DNAs that correspond to 5'ESTs and for diagnostic, forensic, gene therapy and chromosome mapping procedures.
XX	PP	PR	PR	
XX	XX	XX	XX	Claim 1; SEQ ID NO 28975; 71pp + Sequence Listing; English.
XX	XX	XX	XX	The present sequence is one of a large number of 5' ESTs derived from mRNAs encoding secreted proteins. No ORF has yet been conclusively identified within the present sequence. The 5' UTRs are prepared from total human RNAs or polyA+ RNAs derived from 30 different tissues. EST sequences usually correspond mainly to the 3' untranscribed region (UTR) of the mRNA because they are often obtained from Oligo-dT primed cDNA libraries. Such ESTs are not well suited for isolating cDNA sequences derived from the 5' ends of mRNAs and even in those cases where longer cDNA sequences have been obtained, the full 5' UTR is rarely included. 5' ESTs are derived from mRNAs with intact 5' ends and can therefore be used to obtain full length cDNAs and genomic DNAs. 5' ESTs are also used in diagnostic, forensic, gene therapy and chromosome mapping procedures. They are used to obtain upstream regulatory sequences and to design expression and secretion vectors
XX	XX	XX	XX	CC
XX	XX	XX	XX	Sequence 403 BP; 141 A; 68 C; 60 G; 128 T; 0 U; 6 Other;
XX	XX	XX	XX	Query Match Score 21; DB 3; Length 403;
XX	XX	XX	XX	Best Local Similarity 1.9%; Pred. No. 6.8;
XX	XX	XX	XX	Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0
XX	XX	XX	XX	Qy 863 GCCTAAAGAAAGAAAAA 883
XX	XX	XX	XX	Db 163 GCCTAAAAAAAGAAAAAAA 183
XX	XX	XX	XX	Claim 1; Page 132; 633pp; English.
XX	XX	XX	XX	This sequence represents an expressed sequence tag (EST), and is a polynucleotide of the invention. The polynucleotides of the invention are all secreted EST sequences isolated from variety of human tissue sources. The EST sequences and proteins encoded by them are predicted to have useful biological activities which would make them suitable for treating, preventing or ameliorating medical conditions in humans and animals, although no supporting data is given. Suggested activities include nutritional activity, immune stimulating or suppressing activity, haemopoiesis regulating activity, tissue growth activity, activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic and thrombolytic activity, receptor/ligand activity, anti-inflammatory activity, cadherin/tumour invasion suppressor activity, tumour inhibition activity. The EST sequences are also stated to be useful for gene therapy
XX	XX	XX	XX	Sequence 377 BP; 89 A; 88 C; 76 G; 124 T; 0 U; 0 Other;
XX	XX	XX	XX	Query Match Score 21; DB 2; Length 377;
XX	XX	XX	XX	Best Local Similarity 1.9%; Pred. No. 6.8;
XX	XX	XX	XX	Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX	XX	XX	XX	19-SEP-2001 (first entry)
XX	XX	XX	XX	Human cervical cancer marker nucleic acid 2825.
XX	XX	XX	XX	DE Human cervical cancer marker nucleic acid 2825.
XX	XX	XX	XX	KW Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
XX	XX	XX	XX	OS Homo sapiens.
XX	XX	XX	XX	PD 14-JUN-2001.
XX	XX	XX	XX	W0200142467-A2.
XX	XX	XX	XX	AAH71551 standard; cDNA; 621 BP.
XX	XX	XX	XX	AAH71551;
XX	XX	XX	XX	AAH71551;
XX	XX	XX	XX	RESULT 9
XX	XX	XX	XX	AAAC24900
XX	XX	XX	XX	ID AAC24900 standard; cDNA; 403 BP.
XX	XX	XX	XX	AC AAC24900;
XX	XX	XX	XX	DT 06-OCT-2000 (First entry)
XX	XX	XX	XX	PP 08-DEC-2000; 2000WO-US033312.
XX	XX	XX	XX	PR 08-DEC-1999; 99US-016961P.
XX	XX	XX	XX	PR 21-DEC-1999; 99US-017130P.
XX	XX	XX	XX	PR 14-MAR-2000; 2000US-0189315P.
XX	XX	XX	XX	PR 12-MAY-2000; 2000US-0203791P.
XX	XX	XX	XX	PR 09-JUN-2000; 2000US-021060P.
XX	XX	XX	XX	PR 21-JUL-2000; 2000US-0220114P.
XX	XX	XX	XX	(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
XX	XX	XX	XX	PA
XX	XX	XX	XX	PI Schlegel R, Deeds J, Berger A, Zhao X;
XX	XX	XX	XX	XX DR WPI; 2001-375006/39.
XX	XX	XX	XX	XX New isolated nucleic acid for diagnosing and treating cervical cancer and for assessing and detecting compounds for treating the cancer.
XX	XX	XX	XX	XX PT PR PA (GEST) GENSET.

XX The invention relates to novel genes (AAH68727-AAH73383) associated with cervical cancer with cytostatic activity. The nucleic acids and encoded polypeptides are useful to assess if a patient is afflicted with cervical cancer or has a pre-malignant condition; to monitor the progression of cervical cancer or a premalignant condition in a patient; and to select and/or assess the efficacy of a compound or therapy for inhibiting cervical cancer in a patient. The nucleic acids may also be useful for gene therapy.

XX Sequence 621 BP; 273 A; 63 C; 47 G; 238 T; 0 U; 0 Other;

Query Match 1.9%; Score 21; DB 4; Length 621;

Best Local Similarity 100.0%; Pred. No. 6.9;

Matches 21; Conservative 0; N mismatches 0; Indels 0; Gaps 0;

SQ 864 CCTAAAAAGAAAAAAC 884

Db 601 CCTAAAAAGAAAAAAC 621

RESULT 11

AAFI16195/C

ID AAFI16195 standard; cDNA; 1097 BP.

XX AAFI16195;

AC

XX

DT 13-MAR-2001 (first entry)

XX Human prostate cancer antigen nucleotide sequence SEQ ID NO:630.

DB XX

XX Human: prostate cancer; prostate cancer antigen; detection; diagnosis; neuroprotective; cytostatic; cardioactive; immunomodulatory; muscular; vulnerable; gastrintestinal; nephrotropic; antilinfector; synaeological; antibacterial; gene therapy; neural; immune; reproductive; renal; gastrintestinal; pulmonary; cardiovascular; proliferative disorder; wound; infectious disease; ss.

XX OS Homo sapiens.

XX WO200055174-A1.

PN XX

PD 21-MAR-1999;

XX HUMAN GENOME SCI INC.

PA (HUMA-) ROSEN C A.

PP 08-MAR-2000; 2000WO-US005988.

PR 12-MAR-1999; 99US-0124270P.

XX

PA (ROSE/) ROSEN C A.

PS Claim 1; Page 1072-1073; 23:38pp; English.

PI Rosen CA, Ruben SM;

XX

DR WPI; 2000-587513/55.

DR P-PSDB; AAB56592.

XX

PT Prostate cancer associated gene sequences, referred to as prostate cancer antigens, useful for treatment, prevention, and diagnosis of disorders such as prostate cancer.

XX

CC AAP15566 to AAP16505 encode the human prostate cancer associated proteins, called prostate cancer antigens, given in AAB5363 to AAB57302. The prostate cancer antigens can have neuroprotective, cytosstatic, cardioactive, immunomodulatory, muscular, vulnerable, gastrointestinal, nephrotropic, antilinfector, synaeological and antibacterial activities, and can be used in gene therapy. The prostate cancer antigen polynucleotides may be used for detection of prostate cancer, chromosome identification, as chromosome markers, and for numerous other diagnostic or research purposes. The prostate cancer antigens may be used to treat disorders such as neural, immune, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal, and proliferative

CC disorders, wounds, and infectious diseases. AAP16506 to AAP16514 to AAB57303 represent sequences used in the exemplification of the present invention.

CC Sequence 1097 BP; 301 A; 204 C; 201 G; 389 T; 0 U; 2 Other;

XX

Query Match 1.9%; Score 21; DB 3; Length 1097;

Best Local Similarity 100.0%; Pred. No. 7.7;

Matches 21; Conservative 0; N mismatches 0; Indels 0; Gaps 0;

Qy 863 GCCTAAAAAGAAAAAAA 883

Db 162 GCCTAAAAAGAAAAAAA 142

RESULT 12

ADA72818/C

ID ADA72818 standard; DNA; 2000 BP.

XX

AC ADA72818;

XX

DT 20-NOV-2003 (first entry)

XX Rice gene, SEQ ID 6143.

DB XX

KW Plant; bacterial infection; fungal infection; viral infection; rice; gene; ds.

XX

OS Oryza sativa.

XX

PN WO2003000898-A1.

XX

PD 03-JAN-2003.

XX

PP 22-JUN-2001; 2001WO-1B001105.

XX

PR 22-JUN-2001; 2001WO-1B001105.

XX

PA (SYGN) SYNGENTA PARTICIPATIONS AG.

XX

PI Chang H, Chen W, Cooper B, Glazebrook J, Goff SA, Hou Y;

PI Katagiri F, Quan S, Tao Y, Whitham S, Xie Z, Zhu T, Zou G;

XX

DR WPT; 2003-175290/17.

XX

PT Identifying at least one gene involved in plant resistance or response to pathogenic infection for conferring resistance or tolerance to a plant to bacterial, fungal or viral infection by determining or detecting plant gene expression.

XX

Claim 27; SEQ ID NO 6143; 89pp; English.

CC The present invention relates to a method (M1) for identifying genes involved in plant resistance or response to pathogenic infection. M1 comprises identifying a gene whose expression is significantly altered in the incompatible interaction of plant gene expression relative to expression of the gene in an uninfected plant, in a mutant plant that does not express a gene associated with response to pathogenic infection, or in a corresponding incompatible or compatible interaction. (M1) is useful for conferring resistance to resistance or tolerance to a plant to bacterial, fungal or viral infection. The present sequence was used to illustrate the invention.

CC Sequence 2000 BP; 632 A; 370 C; 326 G; 672 T; 0 U; 0 Other;

CC

Query Match 1.9%; Score 21; DB 8; Length 2000;

Best Local Similarity 100.0%; Pred. No. 7.2;

Matches 21; Conservative 0; N mismatches 0; Indels 0; Gaps 0;

Qy 867 AAAAAGAAAAAAACTGT 887

Db 1385 AAAAAGAAAAAAACTGT 1365

RESULT 13
 AAH72880 / C
 ID AAH72880 standard; cDNA; 2170 BP.
 XX
 AC AAH72880;
 XX
 DT 19-SEP-2001 (First entry)
 XX Human cervical cancer marker nucleic acid 4154.
 DE
 KW Cervical cancer; cytostatic; pre-malignant condition; gene therapy; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200142467-A2.
 XX
 PD 14-JUN-2001.
 XX
 PF 08-DEC-2000; 2000WO-US033312.
 XX
 PR 08-DEC-1999; 99US-0169681P.
 PR 21-DEC-1999; 99US-0171350P.
 PR 14-MAR-2000; 2000US-0183315P.
 PR 12-MAY-2000; 2000US-0203791P.
 PR 09-JUN-2000; 2000US-0210600P.
 PR 21-JUL-2000; 2000US-022014P.
 XX
 PA (MILLI-) MILLENNIUM PREDICTIVE MEDICINE INC.
 XX
 PI Schlegel R, Deeds J, Berger A, Zhao X;
 XX
 DR WPI; 2001-375006/39.
 XX New isolated nucleic acid for diagnosing and treating cervical cancer and
 PT for assessing and detecting compounds for treating the cancer.
 XX
 PS Claim 1; Page 903; 1051pp; English.
 XX
 CC The invention relates to novel genes (AAH60727-AAH73383) associated with
 CC cervical cancer with cytostatic activity. The nucleic acids and encoded
 CC polypeptides are useful: to assess if a patient is afflicted with
 CC cervical cancer or has a pre-malignant condition; to monitor the
 CC progression of cervical cancer or a premalignant condition in a patient;
 CC and to select and/or assess the efficacy of a compound or therapy for
 CC inhibiting cervical cancer in a patient. The nucleic acids may also be
 CC useful for gene therapy
 XX
 SQ Sequence 2170 BP; 358 A; 688 C; 428 G; 688 T; 0 U; 8 Other;
 CC
 CC Query Match 1.9%; Score 21; DB 5; Length 2170;
 CC Best Local Similarity 100.0%; Pred. No. 7.2;
 CC Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CC
 CC Qy 866 TAAAAAAGAAAAAAACTG 886
 CC DB 96 TAAAAAAGAAAAAAACTG 76
 CC
 RESULT 15
 ABV2569/C
 ID ABV2569 standard; cDNA; 2170 BP.
 XX
 AC ABV2569;
 XX
 DT 13-SEP-2002 (First entry)
 XX Human prostate expression marker cDNA 22580.
 DE
 KW Human; prostate cancer; cytostatic; carcinogen; pharmacoxyanamic marker;
 KW pharmacoxyanamic marker; gene; ss.
 XX
 OS Homo sapiens.

RESULT 14
 ABV22589/C
 ID ABV22589 standard; cDNA; 2170 BP.
 XX
 AC ABV22589;
 XX
 DT 13-SEP-2002 (First entry)
 XX Human prostate expression marker cDNA 22580.
 DE
 KW Human; prostate cancer; cytostatic; carcinogen; pharmacoxyanamic marker;
 KW pharmacoxyanamic marker; gene; ss.
 XX
 OS Homo sapiens.

XX WO200160860-A2.
 XX 23-AUG-2001.
 XX
 PD 20-FEB-2001; 2001WO-US005171.
 XX
 PF 17-FEB-2000; 2000US-0183319P.
 PR 16-MAR-2000; 2000US-0189865P.
 PR 25-MAY-2000; 2000US-0207454P.
 PR 09-JUN-2000; 2000US-0211314P.
 PR 18-JUL-2000; 2000US-0219001P.
 PR 13-DEC-2000; 2000US-0255282P.
 XX
 PA (MILLI-) MILLENNIUM PREDICTIVE MEDICINE INC.
 XX
 PI Schlegel R, Endege WO, Monahan JE;
 XX
 DR WPI; 2001-662795/76.
 XX
 PT Novel isolated nucleic acid molecule associated with cancerous state of
 PT prostate cells and correlating with presence of prostate cancer, useful
 PT for detecting presence of prostate cancer, stage of prostate cancer.
 XX
 PS Claim 1; Page 3930; 11750pp; English.
 XX
 CC The invention relates to an isolated nucleic acid molecule (I), comprising
 CC a nucleotide sequence given in Tables 1-9 (ABV0001-ABV62213) of the
 CC specification or its complement. (I) is useful for: (a) assessing whether
 CC a patient is afflicted with prostate cancer; (b) monitoring the
 CC progression of prostate cancer in a patient; (c) assessing the efficacy
 CC of a test compound to inhibit prostate cancer in a patient; (d) assessing
 CC the efficacy of a therapy for inhibiting prostate cancer in a patient;
 CC (e) selecting a composition for inhibiting prostate cancer in a patient;
 CC (f) assessing the prostate cell carcinogenic potential of a compound; (g)
 CC determining whether prostate cancer has metastasized in a patient; (h)
 CC assessing the aggressiveness or indolence of prostate cancer in a patient
 CC ; (I) is also useful as a pharmacoxyanamic or pharmacoxyanamic marker
 XX
 SQ Sequence 2170 BP; 358 A; 688 C; 428 G; 688 T; 0 U; 8 Other;
 CC
 CC Query Match 1.9%; Score 21; DB 5; Length 2170;
 CC Best Local Similarity 100.0%; Pred. No. 7.2;
 CC Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 CC
 CC Qy 866 TAAAAAAGAAAAAAACTG 886
 CC DB 96 TAAAAAAGAAAAAAACTG 76
 CC
 DT 16-SEP-2002 (first entry)
 XX
 DE Human prostate expression marker cDNA 25686.
 XX
 ID ABV2569 standard; cDNA; 2170 BP.
 XX
 AC ABV2569;
 XX
 DE Human prostate expression marker cDNA 25680.
 KW Human; prostate cancer; cytostatic; carcinogen; pharmacoxyanamic marker;
 KW pharmacoxyanamic marker; gene; ss.
 XX
 OS Homo sapiens.

XX WO200160860-A2.
 XX
 PD 23-AUG-2001.
 XX
 PR 26-FEB-2001; 2001WO-US005171.
 XX
 PR 17-FEB-2000; 2000US-0183319P.
 PR 16-MAR-2000; 2000US-0189862P.

PR 25-MAY-2000; 2000US-0207454P.
PR 09-JUN-2000; 2000US-0211314P.
PR 18-JUL-2000; 2000US-0219007P.
PR 13-DEC-2000; 2000US-0225281P.
XX
(MILL-) MILLENNIUM PREDICTIVE MEDICINE INC.
PA
PI Schlegel R, Endgege WO, Monahan JE;
XX DR WPI; 2001-662795/76.

XX Novel isolated nucleic acid molecule associated with cancerous state of prostate cells and correlating with presence of prostate cancer, useful for detecting presence of prostate cancer, stage of prostate cancer.

PS Claim 1; Page 5153; 11750pp; English.

CC The invention relates to an isolated nucleic acid molecule (I) comprising CC a nucleotide sequence given in Tables 1-9 (ABV00010-ABV6213) of the CC specification or its complement. (I) is useful for: (a) assessing whether CC a patient is afflicted with prostate cancer; (b) monitoring the progression of prostate cancer in a patient; (c) assessing the efficacy CC of a test compound to inhibit prostate cancer in a patient; (d) assessing CC the efficacy of a therapy for inhibiting prostate cancer in a patient; (e) selecting a composition for inhibiting prostate cancer in a patient; (f) assessing the prostate cell carcinogenic potential of a compound; (g) determining whether prostate cancer has metastasized in a patient; (h) assessing the aggressiveness or indolence of prostate cancer in a patient CC ; (I) is also useful as a pharmacodynamic or pharmacogenomic marker XX

SQ Sequence 2170 BP; 358 A; 688 C; 428 G; 688 T; 0 U; 8 Other;

Query Match 1.9%; Score 21; DB 5; Length 2170;
Best Local Similarity 100.0%; Pred. No. 7.2;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 866 TAAAAAAGAAAAAAACTG 886
Db 96 TAAAAAAGAAAAAAACTG 76

Search completed: August 29, 2005, 03:26:35
Job time : 702 secs

Copyright GenCore version 5.1.6
(c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 29, 2005, 03:00:28 ; Search time 233 Seconds
(without alignments)

7802.161 Million cell updates/sec

Title: US-09-979-549-2

Perfect score: 1111

Sequence: 1 gaagtcaaaaaggccgttcag.....ccggaaagagagagagag 1111

Scoring table: OLIGO NUC

Gapop: 60.0 , Gapext: 60.0

Searched: 1202784 seqs, 818138359 residues

Word size : 0

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database	Issued Patents NA:*	1: /sgn2_6/ptodata/1/ina/5A_COMB.seq:*	2: /sgn2_6/ptodata/1/ina/5B_COMB.seq:*	3: /sgn2_6/ptodata/1/ina/6A_COMB.seq:*	4: /sgn2_6/ptodata/1/ina/6B_COMB.seq:*	5: /sgn2_6/ptodata/1/inapctus/COMB.seq:*	6: /sgn2_6/ptodata/1/inabckfile1.seq:*
	Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.						

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	22	2.0	249	4	US-09-248-796A-9416/C
C 2	22	2.0	601	4	US-09-94-016-119414
C 3	22	2.0	601	4	Sequence 119415,
C 4	22	2.0	51403	4	Sequence 15057,
C 5	22	2.0	250352	4	Sequence 14724,
C 6	21	1.9	403	4	Sequence 28975,
C 7	21	1.9	601	4	Sequence 120940,
C 8	21	1.9	33908	4	Sequence 169986,
C 9	21	1.9	114139	4	Sequence 15104,
C 10	21	1.8	601	4	Sequence 16536,
C 11	20	1.8	601	4	Sequence 80010,
C 12	20	1.8	601	4	Sequence 80011,
C 13	20	1.8	601	4	Sequence 80012,
C 14	20	1.8	601	4	Sequence 136288,
C 15	20	1.8	601	4	Sequence 148215,
C 16	20	1.8	601	4	Sequence 148216,
C 17	20	1.8	667	4	Sequence 18, Appl
C 18	20	1.8	1725	4	Sequence 3377, AP
C 19	20	1.8	1890	4	Sequence 4824,
C 20	20	1.8	8625	4	Sequence 16566,
C 21	20	1.8	13985	4	Sequence 15640,
C 22	20	1.8	15632	4	Sequence 15119,
C 23	20	1.8	22471	4	Sequence 15902,
C 24	20	1.8	91772	4	Sequence 15568,
C 25	20	1.8	154023	4	Sequence 17057,
C 26	20	1.8	171700	4	Sequence 12276,
C 27	20	1.8	171701	4	Sequence 15835,

RESULT 1

US-09-248-796A-9416/C

; Sequence 9416, Application US/09248796A

; Patent No. 677137

; GENERAL INFORMATION:

; APPLICANT: Keith Weinstock et al

; TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO CANDIDA ALBICAN

; FILE REFERENCE: 107196-132

; CURRENT APPLICATION NUMBER: US/09-248-796A

; CURRENT FILING DATE: 199-02-12

; PRIORITY APPLICATION NUMBER: US 60/074, 725

; PRIORITY FILING DATE: 1998-02-13

; PRIORITY APPLICATION NUMBER: US 60/096, 409

; PRIORITY FILING DATE: 1998-08-13

; NUMBER OF SEQ ID NOS: 28208

; SEQ ID NO: 9416

; LENGTH: 249

; TYPE: DNA

; ORGANISM: Candida albicans

US-09-248-796A-9416

Query Match 2.0% Score 22; DB 4; Length 249;

Best Local Similarity 10.0%; Pred. No. 0.77; Mismatches 0; Indels 0; Gaps 0;

Qy 864 CCTTAAAAAGAAAAGAAAACCT 885

Db 108 CCTTAAAAAGAAAAGAAAACCT 87

RESULT 2

US-09-949-016-119414/C

; Sequence 119414, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949, 016

; CURRENT FILING DATE: 2000-04-14

; PRIORITY APPLICATION NUMBER: 60/241, 755

; PRIORITY FILING DATE: 2000-1-20

; PRIORITY APPLICATION NUMBER: 60/237, 768

; PRIORITY FILING DATE: 2000-1-03

; PRIORITY APPLICATION NUMBER: 60/231, 498

; PRIORITY FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSEQ for Windows Version 4.0

SEQ ID NO: 119414
 LENGTH: 601
 TYPE: DNA
 ORGANISM: Human
 US-09-949-016-119414

Query Match Score 22; DB 4; Length 601;
 Best Local Similarity 100.0%; Pred. No. 0.77;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 868 AAAAAGAAAAAAACTGTTC 889
 Db 378 AAAAAGAAAAAAACTGTTC 357

RESULT 3

US-09-949-016-119415/c
 Sequence 119415, Application US/09949016
 Patent No. 6812339
 GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949,016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 119415
 LENGTH: 601
 TYPE: DNA
 ORGANISM: Human
 US-09-949-016-119415

Query Match Score 22; DB 4; Length 601;
 Best Local Similarity 100.0%; Pred. No. 0.77;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 868 AAAAAGAAAAAAACTGTTC 889
 Db 60 AAAAAGAAAAAAACTGTTC 39

RESULT 4

US-09-949-016-15057/c
 Sequence 15057, Application US/09949016
 Patent No. 6812339
 GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949,016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 15057
 LENGTH: 51403
 TYPE: DNA
 ORGANISM: Human
 FEATURE:

RESULT 5

US-09-949-016-14724/c
 Sequence 14724, Application US/09949016
 Patent No. 6812339
 GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949,016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241,755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 14724
 LENGTH: 250352
 TYPE: DNA
 ORGANISM: Human
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)..(250352)
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-14724

Query Match Score 22; DB 4; Length 250352;
 Best Local Similarity 100.0%; Pred. No. 0.83%;
 Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 865 CTAAGAAAGAAAAAAACTG 886
 Db 228042 CTAAGAAAGAAAAAAACTG 228021

RESULT 6

US-09-513-999C-28975
 Sequence 28975, Application US/09513999C
 Patent No. 6783961
 GENERAL INFORMATION:
 APPLICANT: Dumas Milne Edwards, J.B.
 APPLECTANT: Ducleart, A.
 APPLECTANT: Giordano, J.Y.
 TITLE OF INVENTION: Expressed Sequence Tags and Encoded Human Proteins.
 Patent No. 6783961
 FILE REFERENCE: 59.US2.REG
 CURRENT APPLICATION NUMBER: US/09/513,999C
 CURRENT FILING DATE: 2000-02-24
 PRIOR APPLICATION NUMBER: US 60/122,487
 PRIOR FILING DATE: 1999-02-26
 NUMBER OF SEQ ID NOS: 36681
 SOFTWARE: Patent-1pm
 SEQ ID NO: 28975
 LENGTH: 403
 TYPE: DNA
 ORGANISM: Homo sapiens

```

;FEATURE:
;NAME/KEY: misc_feature
;LOCATION: 56
;OTHER INFORMATION: r=a or g
;FEATURE:
;NAME/KEY: misc_feature
;LOCATION: 254
;OTHER INFORMATION: w=a or t
;FEATURE:
;NAME/KEY: misc_feature
;LOCATION: 255
;OTHER INFORMATION: n=a, g, c or t
;FEATURE:
;NAME/KEY: misc_feature
;LOCATION: 332
;OTHER INFORMATION: h=a or c or t
;FEATURE:
;NAME/KEY: misc_feature
;LOCATION: 358
;OTHER INFORMATION: v=a or c or g
US-09-513-993C-28975

Query Match
Best Local Similarity 100.0% ; Score 21; DB 4; Length 403;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 863 GCCTAAAAAGAAAAAA 883
Db 163 GCCTAAAAAGAAAAAA 183

RESULT 7
US-09-949-016-120940
; Sequence 120940, Application US/09949016
; Patent No. 6812339

GENERAL INFORMATION
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO01307
; CURRENT APPLICATION NUMBER: US/09/949, 016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 120940
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-120940

Query Match
Best Local Similarity 100.0% ; Score 21; DB 4; Length 601;
Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 867 AAAAAGAAAAAAACTGT 887
Db 401 AAAAAGAAAAAAACTGT 421

RESULT 8
US-09-949-016-169986/C
; Sequence 169986, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
```

APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949, 016
 CURRENT FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/241, 755
 PRIOR FILING DATE: 2000-10-20
 PRIOR APPLICATION NUMBER: 60/237, 768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231, 498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 16536
 LENGTH: 114139
 TYPE: DNA
 ORGANISM: Human
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)..(114139)
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-16536

Query Match Score 1.9%; Score 21; DB 4; Length 114139;
 Best Local Similarity 100.0%; Pred. No. 2.6%;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 868 AAAAGAAAAAAAGAACTGTT 888
 DD 57687 AAAAGAAAAAAAGAACTGTT 57707

RESULT 11
 US-09-949-016-80010/c
 Sequence 80010, Application US/09949016
 ; General Information:
 ; Applicant: VENTER, J. Craig et al.
 ; Title of Invention: Polymorphisms in Known Genes Associated With Human Disease, Methods of Detection and Uses Thereof
 ; File Reference: CL001307
 ; Current Application Number: US/09/949, 016
 ; Current Filing Date: 2000-04-14
 ; Prior Application Number: 60/241, 755
 ; Prior Filing Date: 2000-10-20
 ; Prior Application Number: 60/237, 768
 ; Prior Filing Date: 2000-10-03
 ; Prior Application Number: 60/231, 498
 ; Prior Filing Date: 2000-09-08
 ; Number of Seq Id Nos: 207012
 ; Software: FastSEQ for Windows Version 4.0
 ; Seq Id No: 80010
 ; Length: 601
 ; Type: DNA
 ; Organism: Human
 US-09-949-016-80010

Query Match Score 1.8%; Score 20; DB 4; Length 601;
 Best Local Similarity 100.0%; Pred. No. 7.9%;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 864 CCTAAAAAAGAAAAAAA 883
 DD 368 CCTAAAAAAGAAAAAAA 349

RESULT 12
 US-09-949-016-80011/c
 Sequence 80011, Application US/09949016
 ; General Information:
 ; Applicant: VENTER, J. Craig et al.

; Title of Invention: Polymorphisms in Known Genes Associated With Human Disease, Methods of Detection and Uses Thereof
 ; File Reference: CL001307
 ; Current Application Number: US/09/949, 016
 ; Current Filing Date: 2000-04-14
 ; Prior Application Number: 60/241, 755
 ; Prior Filing Date: 2000-10-20
 ; Prior Application Number: 60/237, 768
 ; Prior Filing Date: 2000-10-03
 ; Prior Application Number: 60/231, 498
 ; Prior Filing Date: 2000-09-08
 ; Number of Seq Id Nos: 207012
 ; Software: FastSEQ for Windows Version 4.0
 ; Seq Id No: 80011
 ; Length: 601
 ; Type: DNA
 ; Organism: Human
 US-09-949-016-80011

Query Match Score 1.8%; Score 20; DB 4; Length 601;
 Best Local Similarity 100.0%; Pred. No. 7.9%;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 864 CCTAAAAAAGAAAAAAA 883
 DD 321 CCTAAAAAAGAAAAAAA 302

RESULT 13
 US-09-949-016-80012/c
 Sequence 80012, Application US/09949016
 ; General Information:
 ; Applicant: VENTER, J. Craig et al.
 ; Title of Invention: Polymorphisms in Known Genes Associated With Human Disease, Methods of Detection and Uses Thereof
 ; File Reference: CL001307
 ; Current Application Number: US/09/949, 016
 ; Current Filing Date: 2000-04-14
 ; Prior Application Number: 60/241, 755
 ; Prior Filing Date: 2000-10-20
 ; Prior Application Number: 60/237, 768
 ; Prior Filing Date: 2000-10-03
 ; Prior Application Number: 60/231, 498
 ; Prior Filing Date: 2000-09-08
 ; Number of Seq Id Nos: 207012
 ; Software: FastSEQ for Windows Version 4.0
 ; Seq Id No: 80012
 ; Length: 601
 ; Type: DNA
 ; Organism: Human
 US-09-949-016-80012

Query Match Score 1.8%; Score 20; DB 4; Length 601;
 Best Local Similarity 100.0%; Pred. No. 7.9%;
 Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ For Windows Version 4.0
; SEQ ID NO: 136288
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-136288

```

```

Query Match          1.8%;  Score 20;  DB 4;  Length 601;
Best Local Similarity 100.0%; Pred. No. 7.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy      875 AAAAAAAACTGTCAATCA 894
Db      309 AAAAAAAACTGTCAATCA 290

```

```

RESULT 15
US-09-949-016-148215/C
; Sequence 148215; Application US/09949016
; Patent No. 6812319
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CLO001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ For Windows Version 4.0
; SEQ ID NO: 148215
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human
; US-09-949-016-148215

```

```

Query Match          1.8%;  Score 20;  DB 4;  Length 601;
Best Local Similarity 100.0%; Pred. No. 7.9;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy      416 GGAGGAGAAAGAAGTGA 435
Db      335 GGAGGAGAAAGTGA 316

```

Search completed: August 29, 2005, 06:07:46
Job time : 236 secs




```

RESULT 2
US-09-867-701-9430
; Sequence 9430, Application US/098677701
; Patent No. US2002013237A1
; GENERAL INFORMATION:
; APPLICANT: Aglate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.497
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 9430
; LENGTH: 141
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-867-701-9430

Query Match
Best Local Similarity 100.0%; Score 22; DB 9; Length 141;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 862 AGCCCTAAAGAAAGAAAAAA 883
Db 98 AGCCTAAAGAAAGAAAAAA 119

RESULT 3
US-09-867-701-9165
; Sequence 9165, Application US/098677701
; Patent No. US2002013237A1
; GENERAL INFORMATION:
; APPLICANT: Aglate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.497
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 9165
; LENGTH: 144
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-867-701-9165

Query Match
Best Local Similarity 100.0%; Score 22; DB 9; Length 144;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 862 AGCCCTAAAGAAAGAAAAAA 883
Db 99 AGCCTAAAGAAAGAAAAAA 120

RESULT 4
US-09-867-701-9299
; Sequence 9299, Application US/098677701
; Patent No. US2002013237A1
; GENERAL INFORMATION:
; APPLICANT: Aglate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.497
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 9299
; LENGTH: 154
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-867-701-9299

Query Match
Best Local Similarity 100.0%; Score 22; DB 9; Length 154;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 862 AGCTTAAAGAAAGAAAAAA 883
Db 112 AGCTTAAAGAAAGAAAAAA 133

RESULT 5
US-09-867-701-9926
; Sequence 9926, Application US/09867701
; Patent No. US2002013237A1
; GENERAL INFORMATION:
; APPLICANT: Aglate, Paul A.
; APPLICANT: Jones, Robert
; APPLICANT: Harlocker, Susan L.
; TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE THERAPY
; FILE REFERENCE: 210121.497
; CURRENT FILING DATE: 2001-05-29
; NUMBER OF SEQ ID NOS: 10912
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 9926
; LENGTH: 213
; TYPE: DNA
; ORGANISM: Homo sapien
US-09-867-701-9926

Query Match
Best Local Similarity 100.0%; Score 22; DB 9; Length 213;
Matches 22; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 862 AGCTTAAAGAAAGAAAAAA 883
Db 163 AGCTTAAAGAAAGAAAAAA 184

RESULT 6
US-09-814-353-2030/c
; Sequence 20330, Application US/09814353
; Publication No. US20030165831A1
; GENERAL INFORMATION:
; APPLICANT: Lee, John
; APPLICANT: Thompson, Pamela
; APPLICANT: Lillie, James
; TITLE OF INVENTION: NOVEL GENES, COMPOSITIONS, KITS, AND METHODS FOR
; IDENTIFICATION, ASSESSMENT, PREVENTION, AND
; TREATMENT OF OVARIAN CANCER
; FILE REFERENCE: MRI-006B
; CURRENT FILING DATE: 2001-03-21
; PRIORITY APPLICATION NUMBER: US 60/191,031
; PRIORITY FILING DATE: 2000-03-21
; PRIORITY APPLICATION NUMBER: US 60/207,124
; PRIORITY FILING DATE: 2000-05-15
; PRIORITY APPLICATION NUMBER: US 60/211,940
; PRIORITY FILING DATE: 2000-06-15
; PRIORITY APPLICATION NUMBER: US 60/216,520
; PRIORITY FILING DATE: 2000-07-07
; PRIORITY APPLICATION NUMBER: US 60/220,661
; PRIORITY FILING DATE: 2000-07-25

```

```

; PRIORITY APPLICATION NUMBER: US 60/257,672
; PRIOR FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 2,037
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO: 20330
; LENGTH: 1074
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 968, 1074
; OTHER INFORMATION: n = A,T,C or G
US-09-814-353-20330

Query Match          2.0%; Score 22; DB 10; Length 1074;
Best Local Similarity 100.0%; Pred. No. 0.69; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 22; Conservative 0; MisMatched 0; Del 0; Insert 0; Gap 0;

Qy    867 AAAAAGAAAAAAACTGTT 888
Db    427 AAAAAGAAAAAACTGTT 406

RESULT 9
US-10-085-783A-46223
; Sequence 46223, Application US/10085783A
; Publication No. US/004037841A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
; FILE REFERENCE: 4231/2002
; CURRENT APPLICATION NUMBER: US/10/085,783A
; CURRENT FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 58994
; SOFTWARE: Patentin version 3.2
; SEQ ID NO: 46223
; LENGTH: 261
; TYPE: DNA
; ORGANISM: Human
US-10-085-783A-46223

Query Match          1.9%; Score 21; DB 17; Length 261;
Best Local Similarity 100.0%; Pred. No. 2.3; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 21; Conservative 0; MisMatched 0; Del 0; Insert 0; Gap 0;

Qy    863 GCCTAAAAAGAAAAAAA 883
Db    222 GCCTAAAAAGAAAAAAA 242

RESULT 10
US-10-085-115-101740/C
; Sequence 101740, Application US/10425115
; Publication No. US/0040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO: 101740
; LENGTH: 542
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_24297C.1

Query Match          1.9%; Score 21; DB 18; Length 261;
Best Local Similarity 100.0%; Pred. No. 2.3; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 21; Conservative 0; MisMatched 0; Del 0; Insert 0; Gap 0;

Qy    863 GCCTAAAAAGAAAAAAA 883
Db    222 GCCTAAAAAGAAAAAAA 242

RESULT 11
US-10-425-115-101740/C
; Sequence 101740, Application US/10425115
; Publication No. US/0040214272A1
; GENERAL INFORMATION:
; APPLICANT: La Rosa, Thomas J.
; APPLICANT: Kovacic, David K.
; APPLICANT: Zhou, Yihua
; APPLICANT: Cao, Yongwei
; TITLE OF INVENTION: Nucleic Acid Molecules and Other Molecules Associated With
; TITLE OF INVENTION: Plants
; FILE REFERENCE: 38-21(5322)B
; CURRENT APPLICATION NUMBER: US/10/425,115
; CURRENT FILING DATE: 2003-04-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO: 101740
; LENGTH: 542
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_24297C.1

Query Match          1.9%; Score 21; DB 21; Length 394468;
Best Local Similarity 100.0%; Pred. No. 0.92; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 22; Conservative 0; MisMatched 0; Del 0; Insert 0; Gap 0;

US-10-741-600-17952

Query Match          2.0%; Score 22; DB 21; Length 394468;
Best Local Similarity 100.0%; Pred. No. 0.92; 0; Mismatches 0; Indels 0; Gaps 0;
Matches 22; Conservative 0; MisMatched 0; Del 0; Insert 0; Gap 0;

Qy    865 CTAAAAAGAAAAAAACTG 886
Db    53760 CTAAAAAGAAAAAAACTG 53739

RESULT 8
US-10-242-535A-46223
; Sequence 46223, Application US/10242535A
; Publication No. US/0040013663A1
; GENERAL INFORMATION:
; APPLICANT: ChondroGene Inc.
; APPLICANT: ChondroGene Inc.
; TITLE OF INVENTION: Compositions and Methods Relatiing to Osteoarthritis
; FILE REFERENCE: 4231/2005
; CURRENT APPLICATION NUMBER: US/10/242,535A
; CURRENT FILING DATE: 2002-09-12
; PRIOR APPLICATION NUMBER: US 10/085,783
; PRIOR FILING DATE: 2002-02-28
; PRIOR APPLICATION NUMBER: US 60/305,340
; PRIOR FILING DATE: 2001-07-13
; PRIOR APPLICATION NUMBER: US 60/275,017
; PRIOR FILING DATE: 2001-03-12
; PRIOR APPLICATION NUMBER: US 60/271,955
; PRIOR FILING DATE: 2001-02-28
; NUMBER OF SEQ ID NOS: 369326
; SEQ ID NO: 101740
; LENGTH: 542
; TYPE: DNA
; ORGANISM: Zea mays
; FEATURE:
; OTHER INFORMATION: Clone ID: MRT4577_24297C.1

```

US-10-425-115-101740
 Query Match 1.9%; Score 21; DB 20; Length 542;
 Best Local Similarity 100.0%; Pred. No. 2.4;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 SEQ ID NO: 169396
 Sequence 169396, Application US/10027632
 Publication No. US2002019871A1
 GENERAL INFORMATION:
 APPLICANT: La Rosa, Thomas J.
 APPLICANT: Kovalic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 APPLICANT: Wu, Wei
 APPLICANT: Boukharov, Andrey A.
 APPLICANT: Barbazuk, Brad
 APPLICANT: Li, Ping
 TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
 Title of Invention: Plants and Uses Thereof for Plant Improvement
 FILE REFERENCE: 38-21-(53221)B
 CURRENT APPLICATION NUMBER: US/10/437,963
 CURRENT FILING DATE: 2003-05-14
 NUMBER OF SEQ ID NOS: 204966
 SEQ ID NO: 3058
 LENGTH: 614
 TYPE: DNA
 ORGANISM: Oryza sativa
 FEATURE:
 OTHER INFORMATION: Clone ID: PAT_MRT4530_102776C.1
 US-10-437-963-3058
 Query Match 1.9%; Score 21; DB 19; Length 614;
 Best Local Similarity 100.0%; Pred. No. 2.4;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 SEQ ID NO: 169396
 Sequence 169396, Application US/10027632
 Publication No. US2002019871A1
 GENERAL INFORMATION:
 APPLICANT: Wang, David G.
 TITLE OF INVENTION: Identification and Mapping of Single Nucleotide
 Title of Invention: Polymorphisms in the Human Genome
 FILE REFERENCE: 108027.129
 CURRENT APPLICATION NUMBER: US/10/027,632
 CURRENT FILING DATE: 2002-04-30
 PRIOR APPLICATION NUMBER: US 60/218,006
 PRIOR FILING DATE: 2000-07-12
 PRIOR APPLICATION NUMBER: US 60/198,676
 PRIOR FILING DATE: 2000-04-20
 PRIOR APPLICATION NUMBER: US 60/193,483
 PRIOR FILING DATE: 2000-03-29
 PRIOR APPLICATION NUMBER: US 60/185,218
 PRIOR FILING DATE: 2000-02-24
 PRIOR APPLICATION NUMBER: US 60/167,363
 PRIOR FILING DATE: 1999-11-23
 PRIOR APPLICATION NUMBER: US 60/156,358
 PRIOR FILING DATE: 1999-09-28
 PRIOR APPLICATION NUMBER: US 60/146,002
 PRIOR FILING DATE: 1999-08-09
 NUMBER OF SEQ ID NOS: 325720
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO: 169396
 LENGTH: 828
 TYPE: DNA
 ORGANISM: Human
 US-10-027-632-169396
 Query Match 1.9%; Score 21; DB 17; Length 828;
 Best Local Similarity 100.0%; Pred. No. 2.4;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 SEQ ID NO: 169396
 Sequence 169396, Application US/09925300
 Publication No. US20020151681A1
 GENERAL INFORMATION:
 APPLICANT: Craig Rosen,
 APPLICANT: Steve Rubin
 TITLE OF INVENTION: Nucleic Acids, Proteins and Antibodies
 FILE REFERENCE: PA101
 CURRENT APPLICATION NUMBER: US/09/925,300
 CURRENT FILING DATE: 2001-08-10
 PRIOR APPLICATION NUMBER: PCT/US00/05988
 PRIOR FILING DATE: 2000-03-08
 PRIOR APPLICATION NUMBER: 60/124,270
 PRIOR FILING DATE: 1999-03-12
 NUMBER OF SEQ ID NOS: 325720

NUMBER OF SEQ ID NOS: 1890
 SOFTWARE: PatentIn Ver. 2.0
 SEQ ID NO: 630
 LENGTH: 1097
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE:
 NAME/KEY: misc feature
 LOCATION: (1)
 OTHER INFORMATION: n equals a,t,g, or c
 US-09-925-300-630

Query Match 1.9%; Score 21; DB 9; Length 1097;
 Best Local Similarity 100.0%; Pred. No. 2.5;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	863 GCCTAAAAAGAAAAAAA 883
Db	162 GCCTAAAAAGAAAAAAA 142

RESULT 15
 US-10-437-963-85377
 Sequence 85377, Application US/10437963
 Publication No. US20040123343A1
 GENERAL INFORMATION:
 APPLICANT: La Rosa, Thomas J.
 APPLICANT: Kovalic, David K.
 APPLICANT: Zhou, Yihua
 APPLICANT: Cao, Yongwei
 APPLICANT: Wu, Wei
 APPLICANT: Boukharov, Andrey A.
 APPLICANT: Barbazuk, Brad
 APPLICANT: Li, Ping
 TITLE OF INVENTION: Rice Nucleic Acid Molecules and Other Molecules Associated With
 TITLE OF INVENTION: Plants and Uses Thereof for Plant Improvement
 CURRENT APPLICATION NUMBER: US/10/437,963
 CURRENT FILING DATE: 2003-05-14
 NUMBER OF SEQ ID NOS: 204966
 SEQ ID NO: 85377
 LENGTH: 1420
 TYPE: DNA
 ORGANISM: Oryza sativa
 FEATURE:
 NAME/KEY: unsure
 LOCATION: (1) (1420)
 OTHER INFORMATION: unsure at all n locations
 FEATURE:
 OTHER INFORMATION: Clone ID: PAT_MRT4530_84521C.1
 US-10-437-963-85377

Query Match 1.9%; Score 21; DB 19; Length 1420;
 Best Local Similarity 100.0%; Pred. No. 2.5;
 Matches 21; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	870 AAAGAAAGAAAAACTGTCA 890
Db	1363 AAAAGAAAGAAAAACTGTCA 1383

Search completed: August 29, 2005, 06:51:41
 Job time : 261 secs



Copyright (c) 1993 - 2005 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: August 29, 2005, 02:56:28 ; Search time 4261 Seconds
(without alignments)

9924.760 Million cell updates/sec

Title: US-09-979-549-2

Perfect score: 1111

Sequence: 1 gaagtccaaaggccgttcag.....ccggagaagagagagagag 1111

Scoring table: OLIIGO_NUC

Gappop=60.0 , Gapext 60.0

Searched: 34239544 seqs, 19032134700 residues

Word size : 0

Total number of hits satisfying chosen parameters: 68479988

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Listing first 45 summaries

Database : EST:**

1: gb_est1:**
2: gb_htc:**
3: gb_est2:**
4: gb_est3:**
5: gb_est4:**
6: gb_est5:**
7: gb_est6:**
8: gb_gss1:**
9: gb_gss2:**

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query	Match	Length	DB ID	Description
1	99	8.9	509	6	CD867573	CD867573 AZ02.106KJ
2	99	8.9	570	6	CD867174	CD867174 AZ02.105J
3	92	8.3	594	6	CA593541	CA593541 wpalc_pk0
4	92	8.3	631	6	CD938039	CD938039 OV_108007
5	90	8.1	624	6	CD865240	CD865240 AZ02.073I
6	88	7.9	430	6	CA712930	CA712930 wdh3c_pk0
7	66	5.9	643	7	CD884411	CD884411 Fl_116I20
8	64	5.8	642	7	CF132917	CF132917 WHE1351G
9	64	5.8	712	6	CD894217	CD894217 G118.125L
10	63	5.7	556	6	CA701748	CA701748 wkm2c_pk0
11	63	5.7	637	6	CD904051	CD904051 G35c.1.12E
12	62	5.6	422	2	BE419251	BE419251 WRR021_H3
13	62	5.6	578	4	BJ257084	BJ257084
14	62	5.6	579	4	BJ221033	BJ221033
c 15	60	5.4	597	4	BJ253061	BJ253061
c 16	58	5.2	533	4	BJ239800	BJ239800
c 17	58	5.2	585	4	BJ233935	BJ233935
c 18	56	5.0	543	6	CA497278	CA497278 WHE2225_C
c 19	56	5.0	1061	7	CK213031	CK213031 FGAS02483
c 20	55	5.0	593	4	BJ296612	BJ296612
c 21	55	4.9	605	4	BJ290275	BJ290275
c 22	54	4.9	582	4	BJ262654	BJ262654
c 23	54	4.9	875	7	CK159678	CK159678 FGAS04115
c 24	53	4.8	839	7	CK158306	CK158306 FGAS03954

ALIGNMENTS

RESULT 1	LOCUS	DEFINITION	509 bp mRNA	mRNA	linear	EST 11-JUL-2003
	CD867573	AZ02.106K05F001108	AZ02	Triticum aestivum	cDNA clone	AZ02106K05
	CD867573	mRNA sequence.				
	CD867573	EST				
	CD867573	GI:32551389				
	KEYWORDS	Triticum aestivum (bread wheat)				
	SOURCE	Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;				
	ORGANISM	Spermatophyta; Magnoliophyta; Liliopsida; Poaceae; Pooidae; Triticeae; Triticum; Genoplante				
	REFERENCE	1 (bases 1 to 509)				
	AUTHORS	Genoplante.				
	TITLE	Genoplante, a major partnership french program in plant genomics				
	JOURNAL	Unpublished (2003)				
	COMMENT	Contact: Genoplante				
		93, rue Henri Rochefort 91025 EVRY CEDEX France				
		Tel: 33 1 69 47 54 00				
		Fax: 33 1 69 47 54 10				
		This sequence has been generated in the framework of the french plant genomics programme "Genoplante" (http://www.genoplante.com) and http://genoplante-info.intobio.org.fr .				
	FEATURES	Location/Qualifiers				
	source	1..509				
		/organism="Triticum aestivum"				
		/mol_type="mRNA"				
		/cultivar="recital"				
		/db_xref="recital"				
		/clone_id="AZ02"				
		/clone_type="root"				
		/clone_tips="AZ02"				
	ORIGIN					
		Query Match 8.9%; Score 99; DB 6; Length 509;				
		Best Local Similarity 100.0%; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
Qy		GGGGAGGGGGGGGGGGGGATGGACAGAGCCACAAAGGCCAACAAAGTGCCGTGAGA 1072				
		CA497278 WHE2225_C				
		CK213031 FGAS02483				
		CD867573 AZ02.106KJ				
		CD867174 AZ02.105J				
		CD865240 AZ02.073I				
		CA712930 wdh3c_pk0				
		CD884411 Fl_116I20				
		CF132917 WHE1351G				
		CD894217 G118.125L				
		CA701748 wkm2c_pk0				
		CD904051 G35c.1.12E				
		BE419251 WRR021_H3				
		BJ257084				
		BJ221033				
		BJ253061				
		BJ239800				
		BJ233935				
		CA497278 WHE2225_C				
		CK213031 FGAS02483				
		CD867573 AZ02.106KJ				
		CD865240 AZ02.073I				
		CA712930 wdh3c_pk0				
		CD884411 Fl_116I20				
		CF132917 WHE1351G				
		CD894217 G118.125L				
		CA701748 wkm2c_pk0				
		CD904051 G35c.1.12E				
		BE419251 WRR021_H3				
		BJ257084				
		BJ221033				
		BJ253061				
		BJ239800				
		BJ233935				
		CA497278 WHE2225_C				
		CK213031 FGAS02483				
		CD867573 AZ02.106KJ				
		CD865240 AZ02.073I				
		CA712930 wdh3c_pk0				
		CD884411 Fl_116I20				
		CF132917 WHE1351G				
		CD894217 G118.125L				
		CA701748 wkm2c_pk0				
		CD904051 G35c.1.12E				
		BE419251 WRR021_H3				
		BJ257084				
		BJ221033				
		BJ253061				
		BJ239800				
		BJ233935				
		CA497278 WHE2225_C				
		CK213031 FGAS02483				
		CD867573 AZ02.106KJ				
		CD865240 AZ02.073I				
		CA712930 wdh3c_pk0				
		CD884411 Fl_116I20				
		CF132917 WHE1351G				
		CD894217 G118.125L				
		CA701748 wkm2c_pk0				
		CD904051 G35c.1.12E				
		BE419251 WRR021_H3				
		BJ257084				
		BJ221033				
		BJ253061				
		BJ239800				
		BJ233935				
		CA497278 WHE2225_C				
		CK213031 FGAS02483				
		CD867573 AZ02.106KJ				
		CD865240 AZ02.073I				
		CA712930 wdh3c_pk0				
		CD884411 Fl_116I20				
		CF132917 WHE1351G				
		CD894217 G118.125L				
		CA701748 wkm2c_pk0				
		CD904051 G35c.1.12E				
		BE419251 WRR021_H3				
		BJ257084				
		BJ221033				
		BJ253061				
		BJ239800				
		BJ233935				
		CA497278 WHE2225_C				
		CK213031 FGAS02483				
		CD867573 AZ02.106KJ				
		CD865240 AZ02.073I				
		CA712930 wdh3c_pk0				
		CD884411 Fl_116I20				
		CF132917 WHE1351G				
		CD894217 G118.125L				
		CA701748 wkm2c_pk0				
		CD904051 G35c.1.12E				
		BE419251 WRR021_H3				
		BJ257084				
		BJ221033				
		BJ253061				
		BJ239800				
		BJ233935				
		CA497278 WHE2225_C				
		CK213031 FGAS02483				
		CD867573 AZ02.106KJ				
		CD865240 AZ02.073I				
		CA712930 wdh3c_pk0				
		CD884411 Fl_116I20				
		CF132917 WHE1351G				
		CD894217 G118.125L				
		CA701748 wkm2c_pk0				
		CD904051 G35c.1.12E				
		BE419251 WRR021_H3				
		BJ257084				
		BJ221033				
		BJ253061				
		BJ239800				
		BJ233935				
		CA497278 WHE2225_C				
		CK213031 FGAS02483				
		CD867573 AZ02.106KJ				
		CD865240 AZ02.073I				
		CA712930 wdh3c_pk0				
		CD884411 Fl_116I20				
		CF132917 WHE1351G				
		CD894217 G118.125L				
		CA701748 wkm2c_pk0				
		CD904051 G35c.1.12E				
		BE419251 WRR021_H3				
		BJ257084				
		BJ221033				
		BJ253061				
		BJ239800				
		BJ233935				
		CA497278 WHE2225_C				
		CK213031 FGAS02483				
		CD867573 AZ02.106KJ				
		CD865240 AZ02.073I				
		CA712930 wdh3c_pk0				
		CD884411 Fl_116I20				
		CF132917 WHE1351G				
		CD894217 G118.125L				
		CA701748 wkm2c_pk0				
		CD904051 G35c.1.12E				
		BE419251 WRR021_H3				
		BJ257084				
		BJ221033				
		BJ253061				
		BJ239800				
		BJ233935				
		CA497278 WHE2225_C				
		CK213031 FGAS02483				
		CD867573 AZ02.106KJ				
		CD865240 AZ02.073I				
		CA712930 wdh3c_pk0				
		CD884411 Fl_116I20				
		CF132917 WHE1351G				
		CD894				

Best Local Similarity Matches 66; Conservative 0; Nismatches 0;	Pred. No. 1e-23; Indels 0; Gaps 0;	Db	47 AGGAAACACAAAGTGCCTGAGAATCAAAGCGGTGCCAGAGAGAGAG 106
QY 1046 CAAGGCAACACAAAGTGCCTGAGAATCAAACAGCGGTGCTGCCAGAGAGAG 1105		Qy	1108 AGAG 1111
Db 1 CAAGGCAACACAAAGTGCCTGAGAATCAAACAGCGGTGCTGCCAGAGAGAG 60		Db	107 AGAG 110
QY 1106 AGAGAG 1111			
Db 61 AGAGAG 66			
RESULT 8		RESULT 9	
CF132917 LOCUS CF132917	CF132917 642 bp mRNA linear EST 24-JUL-2003	CD894217 LOCUS G118_125L08F010828 G118 Triticum aestivum cDNA clone G118125L08,	
DEFINITION WHB4351_G12_M23ZT Wheat meiotic floret cDNA library Triticum aestivum cDNA clone WHB4351_G12_M23, mRNA sequence.		DEFINITION mRNA sequence.	
ACCESSION CP132917	CP132917	ACCESSION CD894217	
VERSION CP132917.1	GI:33216504	VERSION CD894217.1 GI:32665532	
KEYWORDS Triticum aestivum (bread wheat)		KEYWORDS Triticum aestivum (bread wheat)	
SOURCE Organism Triticum aestivum		SOURCE Triticum aestivum	
Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae; Triticeae; Triticum.		Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae; Triticeae; Triticum.	
REFERENCE 1 (bases 1 to 712)		REFERENCE 1 (bases 1 to 712)	
AUTHORS Genoplante.		AUTHORS Genoplante.	
TITLE Genoplante, a major partnership french program in plant genomics		TITLE Genoplante, a major partnership french program in plant genomics	
JOURNAL Unpublished (2003)		JOURNAL Unpublished (2003)	
COMMENT Contact: Olin Anderson		COMMENT Contact: Olin Anderson	
US Department of Agriculture, Agriculture Research Service, Pacific West Area, Western Regional Research Center 800 Buchanan Street, Albany, CA 94710, USA		US Department of Agriculture, Agriculture Research Service, Pacific West Area, Western Regional Research Center 800 Buchanan Street, Albany, CA 94710, USA	
Pham,J., Rausch,C.J., Sutton,T., Woo,J. and Wilson,C.		Pham,J., Rausch,C.J., Sutton,T., Woo,J. and Wilson,C.	
TITLE The structure and function of the expressed portion of the wheat genomes - Meiotic floret cDNA library		TITLE The structure and function of the expressed portion of the wheat genomes - Meiotic floret cDNA library	
JOURNAL Unpublished (2003)		JOURNAL Unpublished (2003)	
COMMENT Contact: Olin Anderson		COMMENT Contact: Olin Anderson	
US Department of Agriculture, Agriculture Research Service, Pacific West Area, Western Regional Research Center 800 Buchanan Street, Albany, CA 94710, USA		US Department of Agriculture, Agriculture Research Service, Pacific West Area, Western Regional Research Center 800 Buchanan Street, Albany, CA 94710, USA	
TeI: 5105595773		TeI: 5105595773	
Fax: 5105595818		Fax: 5105595818	
Email: anderson@w.usda.gov		Email: anderson@w.usda.gov	
FEATURES Sequences have been trimmed to remove vector sequence and low quality sequence with phred score less than 20		FEATURES Sequences have been trimmed to remove vector sequence and low quality sequence with phred score less than 20	
ORIGIN Seq primer: T7 primer.		ORIGIN Seq primer: T7 primer.	
FEATURES Location/Qualifiers		FEATURES Location/Qualifiers	
source 1..642		source 1..642	
/organism="Triticum aestivum"		/organism="Triticum aestivum"	
/mol_type="mRNA"		/mol_type="mRNA"	
/cultivar="Chinese Spring"		/cultivar="Chinese Spring"	
/db_xref="taxon:4565"		/db_xref="taxon:4565"	
/clone="WHB4351_G12_M23"		/clone="WHB4351_G12_M23"	
/tissue type="Whole florets with anthers"		/tissue type="Whole florets with anthers"	
/dev_stag="Meiotic stages pre-meiosis-metaphase I"		/dev_stag="Meiotic stages pre-meiosis-metaphase I"	
/lab_host="E. coli DH10B"		/lab_host="E. coli DH10B"	
/clone_lib="Wheat meiotic floret cDNA library"		/clone_lib="Wheat meiotic floret cDNA library"	
/note="Vetor: popori; Site 1: Sali; Site 2: Noti; Plants were grown in a glasshouse. Anther meiotic stage was determined microscopically after removing a single anther from a primary floret. If determined to be between (and including) meiotic stages pre-meiosis and metaphase I, remaining floret tissue was collected and pooled for library construction. The tissue, total RNA, and poly(A) RNA were prepared, cDNA synthesised, and directionally ligated into pSPORT1 by Tim Sutton in the P Langridge Lab at the Department of Plant Science, University of Adelaide, Waite Campus, Australia. Average insert size 1.4Kb. Plasmid DNA preparations and DNA sequencing were performed in the OD Anderson lab (all other authors)."		/note="Vetor: popori; Site 1: Sali; Site 2: Noti; Plants were grown in a glasshouse. Anther meiotic stage was determined microscopically after removing a single anther from a primary floret. If determined to be between (and including) meiotic stages pre-meiosis and metaphase I, remaining floret tissue was collected and pooled for library construction. The tissue, total RNA, and poly(A) RNA were prepared, cDNA synthesised, and directionally ligated into pSPORT1 by Tim Sutton in the P Langridge Lab at the Department of Plant Science, University of Adelaide, Waite Campus, Australia. Average insert size 1.4Kb. Plasmid DNA preparations and DNA sequencing were performed in the OD Anderson lab (all other authors)."	
Query Match 5.8%; Score 64; DB 7; Length 642;		Query Match 5.8%; Score 64; DB 6; Length 712;	
Best Local Similarity 100.0%; Pred. No. 1.e-22;		Best Local Similarity 100.0%; Pred. No. 1.2e-22;	
Matches 64; Conservative 0; Nismatches 0;		Matches 64; Conservative 0; Nismatches 0;	
Indels 0; Gaps 0;		Indels 0; Gaps 0;	
Db		Db	
QY 1048 AGGCCAACAAAGTGCCTGAGAAATCAACAGGGTGCTGCCAGAGAGAG 1107		QY 1108 AGAG 1111	
Db		Db 71 AGAG 74	
RESULT 10		RESULT 10	
CA701748 LOCUS CA701748	CA701748 556 bp mRNA linear EST 26-NOV-2002	DEFINITION wkm2c_pk005.j20 wkm2c Triticum aestivum cDNA clone wkm2c_pk005_j20	
DEFINITION 5' end, mRNA sequence.		DEFINITION 5' end, mRNA sequence.	
ACCESSION CA701748	ACCESSION CA701748	ACCESSION CA701748.1 GI:25423541	
KEYWORDS Triticum aestivum (bread wheat)		KEYWORDS Triticum aestivum (bread wheat)	
ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae; Triticeae; Triticum.		ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta; Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae; Pooideae; Triticeae; Triticum.	
REFERENCE Tingay,S.V., Powell,W., Walters,P., Dolan,M., Hainey,C., Yuan,Z., Miao,G., Caher,N. and Hanafey,M.K.		REFERENCE Tingay,S.V., Powell,W., Walters,P., Dolan,M., Hainey,C., Yuan,Z., Miao,G., Caher,N. and Hanafey,M.K.	

TITLE	DuPont Wheat cDNA Sequence	Query Match Score 5.7%; DB 6; Length 637;
JOURNAL	Unpublished (2002)	Best Local Similarity 100.0%; Pred. No. 4.2e-22;
COMMENT	Contact: Scott V. Tingey	Mismatches 0; Indels 0; Gaps 0;
CROP GENETICS	Crop Genetics ^b	
E. I. DuPont de Nemours and Company		
1. Innovation Way, P.O. Box 6104, Newark, DE 19714-6104, USA	Qy 1049 GGCAACACAAGTGGCTGAGAAATCAAAGCGGTCTTCGAGAGAGAGA 1108	Matches 63; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Te: 302-631-2602	Db 12 GGCAACACAAGTGGCTGAGAAATCAAAGCGGTCTTCGAGAGAGAGA 71	Fax: 302-631-2607
Email: Scott.V.Tingey@USA.dupont.com	Qy 1109 GAG 1111	Seq primer: M13.
FEATURES	source	Db 72 GAG 74
	Location/Qualifiers	
	1. 556	
	/organism="Triticum aestivum"	
	/mol type="mRNA"	
	/cultivar="hard red spring"	
	/db_xref="taxon:1565"	
	/clone="wkm2c.pic05_120"	
	/tissue_type="kernel"	
	/lab_host="DH10B"	
	/clone_lib="wkm2c"	
	/note="Site_1: EcoRI; Site_2: XbaI; Wheat (Triticum aestivum L.) kernel malted 175 hours at 4 °C"	
ORIGIN		
	Query Match Score 5.7%; DB 6; Length 556;	
	Best Local Similarity 100.0%; Pred. No. 4.2e-22;	
	Matches 63; Conservative 0; Mismatches 0; Indels 0; Gaps 0;	
	Qy 1049 GGCAACACAAGTGGCTGAGAAATCAAAGCGGTCTTCGAGAGAGAGA 1108	
	Db 1 GGCAACACAAGTGGCTGAGAAATCAAAGCGGTCTTCGAGAGAGAGA 60	
	Qy 1109 GAG 1111	
	Db 61 GAG 63	
RESULT 11		
LOCUS	CD904051	Query Match Score 637 bp mRNA linear EST 14-JUL-2003
DEFINITION	G356_112E12F010920	Best Local Similarity 100.0%; Pred. No. 1.5e-21;
	G356_112E12F010920	Mismatches 0; Indels 0; Gaps 0;
ACCESSION	CD904051	
VERSION	CD904051.1	
KEYWORDS	GI:32678379	
FEATURES	source	
ORGANISM	Triticum aestivum (bread wheat)	
	Triticum aestivum	
	Bukaryota; Viridiplantae; Strptophyta; Embryophyta; Tracheophyta;	
	Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;	
	Pooidae; Triticeae; Triticum.	
AUTHORS	..	
TITLE	Genoplante, a major partnership french program in plant genomics	
JOURNAL	Unpublished (2003)	
COMMENT	Contact: Genoplante	
FEATURES	source	
	1. 637	
	/organism="Triticum aestivum"	
	/mol type="mRNA"	
	/cultivar="recifal"	
	/db_xref="taxon:4565"	
	/clone="G356_112E12"	
	/tissue_type="grain" (356 degrees per day after pollination)"	
	/clone_lib="G356_112E12"	
ORIGIN		
	Query Match Score 5.6%; DB 2; Length 422;	
	Best Local Similarity 100.0%; Pred. No. 1.5e-21;	
	Mismatches 0; Indels 0; Gaps 0;	
	Qy 1050 GCAACACAAGTGGCTGAGAAATCAAAGCGGTCTTCGAGAGAGAG 1109	
	Db 8 GCAACACAAGTGGCTGAGAAATCAAAGCGGTCTTCGAGAGAGAG 67	
RESULT 12		
LOCUS	BE419251	Query Match Score 62; DB 2; Length 422;
DEFINITION	WWR021.H3R000101	Best Local Similarity 100.0%; Pred. No. 1.5e-21;
	ITBC WWR wheat Root Library Triticum aestivum cDNA clone	Mismatches 0; Indels 0; Gaps 0;
	WWR021.H3	RNA sequence.
ACCESSION	BE419251	
VERSION	BE419251.1	
KEYWORDS	GI:9417097	
FEATURES	source	
ORGANISM	Triticum aestivum (bread wheat)	
	Triticum aestivum	
	Bukaryota; Viridiplantae; Strptophyta; Embryophyta; Tracheophyta;	
	Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;	
	Pooidae; Triticeae; Triticum.	
AUTHORS	Anderson, O.A.; Appels, R.; Bailey, P.; Blake, T.; Close, T.; Cloutier, S.; Dubcovsky, J.; Feuillet, C.; Gale, M.; Graner, A.; Gustafson, P.; Herrmann, R.G.; Holton, T.; Jacquemin, J.M.; Jia, J.; Joudrier, P.; Langridge, P.; Lazo, G.R.; Lin, J.J.; McGuire, P.; Ogihara, Y.; Peccifoni, N.; Qualset, C.; Schuch, W.; Selvaraj, G.; Sharifloo, M.; Sorrells, M.; Warburton, M.; and Wenzel, G.	
TITLE	International Triticeae EST Cooperative (ITBC): Production of Expressed Sequence Tags for species of the Triticeae	
JOURNAL	Unpublished (2000)	
COMMENT	Contact: Schuch W	
FEATURES	source	
ORGANISM	Zanecca Wheat Improvement Centre, Norwich Research Park Colney Lane, Norwich NR4 7UH UNITED KINGDOM	
	Tel: 44 1603 250 2600	
	Fax: 44 1603 250 699	
	Email: wolfgang.schuch@aguk.zeneca.com	
	International Triticeae EST Cooperative (ITBC)	
	http://www.pw.usda.gov/genome.	
FEATURES	source	
ORGANISM	Location/Qualifiers	
	1. .422	
	/organism="Triticum aestivum"	
	/mol type="mRNA"	
	/cultivar="Novosibirskaya 67"	
	/db_xref="taxon:1565"	
	/clone="WWR021.H3"	
	/tissue_type="root"	
	/clone_lib="ITBC WWR wheat Root Library"	
	/note="M13 Reverse sequencing primer used for 5' end of clone."	
ORIGIN		
	Query Match Score 5.6%; DB 2; Length 422;	
	Best Local Similarity 100.0%; Pred. No. 1.5e-21;	
	Mismatches 0; Indels 0; Gaps 0;	
	Qy 1110 AG 1111	
	Db 68 AG 69	
RESULT 13		
	BUT57084	

Result No.	Score	Query Match	Length	DB ID	Description
1	39.8	3.6	38503	4	US-09-949-016-17257 Sequence 17257, A
2	39.8	3.6	39715	4	US-09-949-016-12454 Sequence 12454, A
3	39.2	3.5	601	4	US-09-949-016-170604 Sequence 170604,
4	38	3.4	27465	4	US-09-949-016-16561 Sequence 16561,
C 5	37.6	3.4	832	4	US-09-621-976-2813 Sequence 2813, A
C 6	37.2	3.3	601	4	US-09-949-016-11783 Sequence 11783, A
C 7	37.2	3.3	601	4	US-09-949-016-11783 Sequence 193904,
C 8	37	3.3	289	3	US-09-007-005-17 Sequence 17, App1
C 9	37	3.3	289	3	US-09-24-796-17 Sequence 17, App1
C 10	36.2	3.3	53915	4	US-09-949-016-12221 Sequence 12221,
C 11	36.2	3.3	53915	4	US-09-949-016-12730 Sequence 12730, A
C 12	36.2	3.3	53924	4	US-09-949-016-11783 Sequence 12947, A
C 13	36.2	3.3	53924	4	US-09-949-016-11783 Sequence 12948, A
C 14	35.8	3.2	460	4	US-09-513-99C-32264 Sequence 32264, A
C 15	35.2	3.2	1141	4	US-09-806-708B-22 Sequence 22, App1
C 16	35	3.2	27968	4	US-09-949-016-15191 Sequence 15191,
C 17	35	3.2	27968	4	US-09-949-016-15192 Sequence 15192, A
C 18	35	3.2	108310	4	US-09-949-016-16366 Sequence 16366, A
C 19	34.8	3.1	541	4	US-09-270-767-10710 Sequence 10710, A
C 20	34.2	3.1	11740	4	US-09-949-016-13670 Sequence 13670, A
C 21	33.8	3.0	68832	4	US-09-949-016-12976 Sequence 12976, A
C 22	33	3.0	168575	3	US-09-426-290-1 Sequence 1, App1
C 23	32.6	2.9	601	4	US-09-949-016-57820 Sequence 57820, A
C 24	32.6	2.9	12603	4	US-09-949-016-17096 Sequence 17096, A
C 25	32.6	2.9	20495	4	US-09-949-016-17198 Sequence 17198, A
C 26	32.6	2.9	42988	4	US-08-311-731A-128 Sequence 128, App
C 27	32.6	2.9	134292	4	US-09-949-016-12158 Sequence 12158, A

RESULT 2
US-09-949-016-12454
Sequence 12454, Application US/09949016
; Patent No. 6812339
GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-00
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 12454
; LENGTH: 39715
; TYPE: DNA
; ORGANISM: Human
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: '(1)_(39715)
; OTHER INFORMATION: n = A, T, C or G

US-09-949-016-12454

Query Match 3.5%; Score 39.2; DB 4; Length 601;
Best Local Similarity 55.2%; Pred. No. 0.014; Indels 0; Gaps 0;
Matches 74; Conservative 1; Mismatches 59;

Qy 179 ATTATATGGATGGGTTATCTAGGGTCTGGAGGTACATTGAAAGATG 238
Db 222 ATCTGGGGGGTGTGAGGACTGTCTGAAGATAAGATGAGATG 281

Qy 239 TGCCACCAACTCAAACCGACAAACCTATCTGAGCATGCCCTCATGCCTCATG 298
Db 282 CAACACCCAACCTCCTCCRCCTGGATGGAGAAACCAACCTTGCCTG 341

RESULT 3
US-09-949-016-170604
Sequence 170604, Application US/09949016
; Patent No. 6812339
GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-00
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 170604
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human

US-09-949-016-170604

Query Match 3.5%; Score 39.2; DB 4; Length 601;
Best Local Similarity 55.2%; Pred. No. 0.014; Indels 0; Gaps 0;
Matches 74; Conservative 1; Mismatches 59;

Qy 179 ATTATATGGATGGGTTATCTAGGGTCTGGAGGTACATTGAAAGATG 238
Db 222 ATCTGGGGGGTGTGAGGACTGTCTGAAGATAAGATGAGATGAGATG 281

Qy 239 TGCCACCAACTCAAACCGACAAACCTATCTGAGCATGCCCTCATGCCTCATG 298
Db 282 CAACACCCAACCTCCTCCRCCTGGATGGAGAAACCAACCTTGCCTG 341

RESULT 4
US-09-949-016-16561
; Sequence 16561, Application US/09949016
; Patent No. 6812339
GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/09/949, 016
CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 16561
; LENGTH: 27465
; TYPE: DNA
; ORGANISM: Human

US-09-949-016-16561

Query Match 3.4%; Score 38; DB 4; Length 27465;
Best Local Similarity 55.2%; Pred. No. 0.46; Indels 0; Gaps 0;
Matches 74; Conservative 0; Mismatches 60;

Qy 179 ATTATATGGATGGGTTATCTAGGGTCTGGAGGTACATTGAAAGATG 238
Db 17411 ATCTGGGGGGTGTGAGGACTGTCTGAAGATAAGATGAGATGAGATG 17470

Qy 239 TGCCACCAACTCAAACCGACAAACCTATCTGAGCATGCCCTCATGCCTCATG 298
Db 17471 CAACACCCAACCTCCTCCRCCTGGATGGAGAAACCAACCTTGCCTG 17530

RESULT 5
US-09-921-976-2813/c
; Sequence 2813, Application US/09621976
; Patent No. 6639063
GENERAL INFORMATION:
; APPLICANT: Dumas Milne Edwards, J.B.
; APPLICANT: Jobert, S.
; APPLICANT: Giordano, J.Y.
; TITLE OF INVENTION: ESTs and Encoded Human Proteins.
; FILE REFERENCE: GENSET 054 PR2
CURRENT APPLICATION NUMBER: US/09/621, 976
; CURRENT FILING DATE: 2000-07-21
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 170604
; LENGTH: 601
; TYPE: DNA
; ORGANISM: Human

NUMBER OF SEQ ID NOS: 19335
 SOFTWARE: Patent.pm
 SEQ ID NO 2813
 LENGTH: 832
 TYPE: DNA
 ORGANISM: Homo sapiens
 FEATURE: CDS
 NAME/KEY:
 LOCATION: 235..399
 US-09-621-976-2813

RESULT 7
 US-09-949-016-193904/C
 ; Sequence 193904, Application US/0949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 6/241,755
 ; PRIOR FILING DATE: 2000-1-20
 ; PRIOR APPLICATION NUMBER: 6/237,768
 ; PRIOR FILING DATE: 2000-1-03
 ; PRIOR APPLICATION NUMBER: 6/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 193904
 ; LENGTH: 601
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-949-016-193904

Query Match Score 37.6; DB 4; Length 832;
 Best Local Similarity 11.6%; Pred. No. 0.062;
 Matches 40; Conservative 150; Mismatches 154; Indels 0; Gaps 0;
 SEQ 540 AATCAGTATGCCCTTCCTGCAATTAACTATAGCTTAAT 599
 Db 378 AATPATTATATTGTGTYWTTWWKARRWYTWKSTYACASRY 319
 Qy 600 ACAGCCAGTTTATATAAACAGGCTTATAGCTGACTGGCAGTGCTGGCGGC 659
 Db 318 RKYTGWNNWWMMRMMSTRWYCNCWCKCMYRGRCAVTTMARGRMWSYANGWKNSRSA 259
 Qy 660 AGCGGCTCTTCTPATTAAGTGTGTTCTATGGCTACATGFTGTGAGGAGTCATTGATT 719
 Db 258 MSMCTRMMYYKKGSTYWTMKCTCATWCYWWKWMRMMSKTCWSGSRGYMTSYTSRYS 199
 Qy 720 CAARACAACAATCGGCTTCAAGCTGGAATGATTCTGGCTCTACTCATTCATGTC 779
 Db 198 MYWASWMMTMCWWNGRWSTYWTWMAWGKWWFATTWWRAMWWWWAAWTMMWWWWAWCM 139
 Qy 780 GTGGGGCTCAAGCCTATTGGCTTAAACCGCTGTTGAATAGAACCTCTAACGAACGGCT 839
 Db 138 SSRGAAMTRTMWWMMWGGYWWRKSYRTRCTAVAYANTIKRSYTWCHWRKCRMNMM 79
 Qy 840 CCAGCGAACCGCTTCAACAGCTGAGCTAAAGAAAAAAA 883
 Db 78 AMAYGKTMMMRACKWKTTRYWMMWWAWMMWWWWMMYTWYRAM 35

RESULT 6
 US-09-949-016-31783/C
 ; Sequence 17, Application US/0949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENTER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 6/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 6/237,768
 ; PRIOR APPLICATION NUMBER: 6/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSEQ for Windows Version 4.0
 ; SEQ ID NO 31783
 ; LENGTH: 601
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-949-016-31783

Query Match Score 37.2; DB 4; Length 601;
 Best Local Similarity 51.9%; Pred. No. 0.068;
 Matches 84; Conservative 0; Mismatches 78; Indels 0; Gaps 0;
 SEQ 133 TGGTGGGGCGCGAGCTGACCGGGCTTAGAAGGGAAATTATGGCCATTATGGCCATG 192
 Db 162 TAGGTGAGCCACTGACCCGGCTTAGGCTTGTGAGATTTTTTTTTGAGATG 103
 Qy 193 GCCTCAGGGCTTATCTAGGGCTCTGGAGGTACATTGAGATTTGGCCATTATGGCCATG 252
 Db 102 GAGTTGCGCTCTGGTGTGAGCTGGACTGCAATGGCCATTCTAGGTACGGCA 43

RESULT 8
 US-09-007-005-17/C
 ; Sequence 17, Application US/09007005B
 ; Patent No. 6258558
 ; GENERAL INFORMATION:
 ; APPLICANT: Szostak, Jack W.
 ; APPLICANT: Robert, Richard W.
 ; APPLICANT: Liu, Rhei
 ; TITLE OF INVENTION: SELECTION OF PROTEINS USING RNA-PROTEIN
 ; FILE REFERENCE: 00786/350003
 ; CURRENT APPLICATION NUMBER: US/09/007,005B
 ; CURRENT FILING DATE: 1998-01-14
 ; EARLIER APPLICATION NUMBER: 60/035,963
 ; EARLIER FILING DATE: 1997-01-27
 ; EARLIER APPLICATION NUMBER: 60/064,491
 ; EARLIER FILING DATE: 1997-11-06
 ; NUMBER OF SEQ ID NOS: 33

Query Match Score 37.2; DB 4; Length 192;
 Best Local Similarity 51.9%; Pred. No. 0.068;
 Matches 84; Conservative 0; Mismatches 78; Indels 0; Gaps 0;
 SEQ 133 TGGTGGGGCGCGAGCTCCTGGCCATTATGGCCATTATGGCCATG 192
 Db 162 TAGGTGAGCCACTGACCCGGCTTAGGCTTGTGAGATTTGGCCATTATGGCCATG 103
 ; LENGTH: 289
 ; TYPE: RNA

Query Match Score 36.2; DB 4; Length 53915;
 Best Local Similarity 57.5%; Pred. No. 3;
 Matches 65; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

Qy 963 GCGAGGCTAAATTCTGATTCCCTGCCCTCAGCAATTATCTTGGGGAGGGGG 1022
 Db 44530 GGGAATTCACAGAAATTGGGCCCTCACTGACTGTTGCAAGTCACTGAGGGGA 44589

Qy 1023 GCGGGATTTGGAGACAGAGGCCAACAGAACAAAGTGCCCGTGTGAAAT 1075
 Db 44590 ATGGAGTGGAAATGGAGTACTAAGGCACAGAACAGCCATAGAACT 44642

RESULT 1.2
 US-09-949-016-12947
 Sequence 12947, Application US/094949016
 Patent No. 681239
 GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949, 016
 PRIOR APPLICATION NUMBER: 60/7441,755
 PRIOR FILING DATE: 2000-04-14
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-08
 NUMBER OF SEQ ID NOS: 207012
 SOFTWARE: FastSEQ for Windows Version 4.0
 SEQ ID NO 12947
 LENGTH: 53924
 TYPE: DNA
 ORGANISM: Human
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: (1)..(53924)
 OTHER INFORMATION: n = A,T,C or G
 US-09-949-016-12947

Query Match Score 36.2; DB 4; Length 53924;
 Best Local Similarity 57.5%; Pred. No. 3;
 Matches 65; Conservative 0; Mismatches 48; Indels 0; Gaps 0;

Qy 963 GCGAGGCTAAATTCTGATTCCCTGCCCTCAGCAATTATCTTGGGGAGGGGG 1022
 Db 44530 GGGAATTCACAGAAATTGGGCCCTCACTGACTGTTGCAAGTCACTGAGGGGA 44589

Qy 1023 GCGGGATTTGGAGACAGAGGCCAACAGAACAAAGTGCCCGTGTGAAAT 1075
 Db 44590 ATGGAGTGGAAATGGAGTACTAAGGCACAGAACAGCCATAGAACT 44642

RESULT 1.3
 US-09-949-016-12948
 Sequence 12948, Application US/094949016
 Patent No. 681239
 GENERAL INFORMATION:
 APPLICANT: VENTER, J. Craig et al.
 TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 FILE REFERENCE: CL001307
 CURRENT APPLICATION NUMBER: US/09/949, 016
 PRIOR APPLICATION NUMBER: 60/237,768
 PRIOR FILING DATE: 2000-10-03
 PRIOR APPLICATION NUMBER: 60/231,498
 PRIOR FILING DATE: 2000-09-08

```

OTHER INFORMATION: d=a or g or t
FEATURE:
NAME/KEY: misc_feature
LOCATION: 458
OTHER INFORMATION: y=c or t
FEATURE:
NAME/KEY: misc_feature
LOCATION: 459
OTHER INFORMATION: k=g or t
FEATURE:
NAME/KEY: misc_feature
LOCATION: 460
OTHER INFORMATION: y=c or t
US-09-513-999C-32264

Query Match Similarity 3.2%; Score 35.8; DB 4; Length 460;
Best Local Similarity 56.6%; Pred. No. 0.17; Mismatches 49; Indels 0; Gaps 0;
Matches 64; Conservative 0; Mismatches 49; Indels 0; Gaps 0;

Qy 963 CGGAGGCCATAAATTCTGATTCTGCCCTGGCCGACAATTATCTTGGGAGGGG 1022
Db 272 CGAAGTCACAGAAAATGGGCCTCACTGACTCTTCNACGTATCTAGTGAGGGA 331

Qy 1023 GCGGGATTGGACACAGCCACAAAGCCAACACAGATGTGGCTGAGAAAT 1075
Db 332 ATCGGACTGGAAATGSAGTNDTCAGGCCAACAGCACAGGGCCCATAGAACT 384

RESULT 15
US-09-806-708B-22
Sequence 22, Application US/09806708B
Patent No. 6784342
GENERAL INFORMATION:
APPLICANT: The University of British Columbia
TITLE OF INVENTION: Regulation of Embryonic Transcription in Plants
FILE REFERENCE: 4810-5841
CURRENT APPLICATION NUMBER: US/09/806,708B
CURRENT FILING DATE: 2001-04-03
PRIORITY NUMBER: US 60/147,133
PRIOR FILING DATE: 1999-08-04
NUMBER OF SEQ ID NOS: 23
SOFTWARE: PatentIn version 3.0
SEQ ID NO 22
LENGTH: 1141
TYPE: DNA
ORGANISM: Artificial sequence
FEATURE:
NAME/KEY: promoter
LOCATION: (1)..(1141)
OTHER INFORMATION: consensus sequence of A.t., L.a., and B.n. FAE1 promoters
US-09-806-708B-22

Query Match Similarity 3.2%; Score 35.2; DB 4; Length 1141;
Best Local Similarity 17.5%; Pred. No. 0.51; Mismatches 133; Indels 0; Gaps 0;
Matches 45; Conservative 79; Mismatches 133; Indels 0; Gaps 0;

Qy 157 GTTTGACCCGAATTTTTACATTATGGGGATGGGTAGCGCTATCTAGCGTC 216
Db 833 GTNNNNNNNNNNNNNAYAWTNKWWYTDWRWBAYTNNNNNNNMKTXYBIAWNNNNNNNRMCPTAHTWW 952

Qy 217 TCGGAGGGTACATTGAAAGATGCCACCAACTCCAAACCGACAACCCTGTATCTGAGCA 276
Db 893 DAWMKWAKTNNNNTTYNRGTAWRTNNNNNNMTMKPTXYBIAWNNNNNNNRMCPTAHTWW 952

Qy 277 TGCTCATGCGCTCTCTTCATGCCCTTCGAGGTATGTGCCCTGGCGCGAG 336
Db 953 VCKATKTKGCMNCCTTCRKYKONNNCTWYTMNTTRTWYATRWKTNNAATGSMTRCNAT 1012
Qy 337 TGCCTCCGTTAGCAAGTAATAAGTCCTAGTCAGTGGCTATAAGTGTCCAC 396
Db 1013 GMKNNNYWTGWKRWTAIRMATRWMKAWWKOMATGSWNTNSYARWAKYKTRAYKGWYNAC 1072

Qy 397 ATCGGAAATCTCTAAA 413

```